

Vision

Extraordinary Education • Excellent Services • Engaged Learners • Enriched Community

Mission

Clark College provides opportunities for diverse learners to achieve their educational and professional goals, thereby enriching the social, cultural, and economic environment of our region and the global community.

Core Themes (Strategic Direction) & Five-Year College Goals

Focus on Learning

The College will focus on learning as the foundation for decision making with respect to planning, technology, location, instructional methods and successful outcomes. Learners will receive high-quality, innovative education and services that foster student success in achievement of their goals.

- Identify, offer, and support teaching and learning strategies that enhance student success.
- Increase the retention and progression of all students, with emphasis on first generation students.
- Refine and implement continuous improvement planning consistent with the "learning college" model.
- Provide all employees with opportunities for professional development.

Expand Access

The college will offer programs and services that are affordable and accessible to students of the community. Students will be provided flexible options for learning in locations that are accessible and resources that help make their education affordable.

- Provide appropriate support services and reduce procedural barriers to help students enroll in college.
- Expand options to increase the overall affordability of education.
- Expand online services across the college.
- Expand learning options by offering courses and services in various modalities, timeframes, and locations.

Foster a Diverse College Community

The college will provide programs and services to support the needs of diverse populations.

- Recruit, retain, and support a diverse student population and college workforce.
- Provide comprehensive training and educational resources to help all members of the college community interact effectively in a diverse world.

Respond to Workforce Needs

The college will provide educational services that facilitate the gainful and meaningful employment for students seeking training, retraining or continuing education. College programs and services will meet the economic needs of the community.

- \bullet Identify and support high-demand workforce needs.
- Identify and support emerging workforce needs, including technology training and green industry skills.
- Establish, maintain, and expand partnerships that support workforce needs.

Enhance College Systems

The College will continually assess, evaluate, and improve college systems to facilitate student learning.

- Improve college infrastructure to support all functions of the college.
- Develop and implement an effective advising system to enhance student success.
- Seek alternate resources, such as grants, philanthropy, and partnerships to fulfill the college mission.
- Refine, communicate, and implement a shared governance system.
- Integrate environmental sustainability practices into all college systems.

Disability Support Services

Clark College and the Disability Support Services (DSS) staff assist those with disabilities in pursuing their educational goals. The DSS staff is committed to assuring Clark College, its services, programs, and activities are accessible to individuals with disabilities. The institution takes seriously its responsibility to follow both the spirit and letter of all pertinent federal and state mandates.

If you are in need of accommodation due to a disability during any of the entry processes to Clark College or for your classes, contact DSS for assistance. Early contact with DSS personnel is essential.

360-992-2314 | 360-991-0901 VP | www.clark.edu/DSS

SECTION A: Enrollment, Aid and College Life

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Welcome Center

360-699-NEXT

Our Welcome Center is your first step whether you are a new, transfer or returning student. We provide information on how to become a student at Clark College. Our services include assistance with admissions procedures, residency information, campus tours, new student orientation and referral to other services and programs. The Welcome Center is located in the lower level of the Penguin Union Building, PUB 002. New students seeking Adult Basic Education, GED preparation classes or English as a Second Language classes should visit the Pathways Learning Center at our Town Plaza Center location or call 360-992-2741.

Admissions 360-992-2107

All students intending to enroll at Clark College are required to submit an application for admission and pay a non-refundable application fee. Applications received by the priority application date are guaranteed an earlier access date for registration. You may apply in one of the following ways:

- Submit a Clark College admissions application in-person or by standard mail, available at www.clark.edu/admissions, OR
- Submit an online admission application, available on the Clark College website at www.clark.edu/quickstep.

Clark College has an open-door admissions policy and admits anyone who is eighteen (18) years of age or a graduate of an accredited high school or the equivalent. Applicants who are under the age of eighteen (18) and without a high school diploma or equivalent may be considered for admissions. Refer to the Exception to Admissions Policy section on page A4 for further details. Admission to the college does not guarantee admission to a specific area of study. Some programs require additional applications and are limited or competitive-entry programs. See additional information on page A4, under Special Admissions Programs.

The Running Start program has its own set of admission policies and procedures. Please refer to page A4 or www.clark.edu/runningstart for more information.

Residency classifications for the purpose of tuition rates are determined by length of time a student has been permanently living in the state of Washington. Please refer to the Residency Classifications section on page A5 for detailed information.

New Student Admission

Students with no previous college experience need to submit an admissions application, provide a non-refundable application fee, and attend and complete the COMPASS placement test. The placement test is available on a walk-in basis and is a non-timed, computer-based test. For further information, see the Placement Testing section on page A19. New students are also required to attend New Student Orientation before they are allowed to register for classes. For more information on orientation, refer to the New Student Orientation section on page A9.

Transfer Student Admission

Students transferring from other colleges are required to submit an admissions application, provide a non-refundable application fee and complete the COMPASS placement exam if math and English was not completed at a previous college or university. Transfer students are required to meet with an advisor before they can register for classes.

If a student intends to use previous credits earned towards a program at Clark College, an official transcript of their college records needs to be sent to the Admissions Office. Transfer students should have an unofficial copy of their transcripts mailed to their homes to use during their advising session. The Admissions Office cannot make unofficial copies of transcripts for students. All admission materials become the property of the college and will not be returned to the student or forwarded to another institution.

Transfer credits are usually accepted by Clark College if such credits were earned at an institution accredited by a regional association recognized by the Council on Postsecondary Accreditation. Students should refer to section B of this catalog for information about non-traditional credits and the process for transcript evaluation.

Withholding information regarding previous attendance at any other school or college is a serious breach of student conduct and may result in disciplinary action.

Former Student Admission

Former Clark College students who are returning to school after an absence of six (6) or more quarters must submit a new admissions application by the priority application date to receive priority registration access. Former students are required to meet with an advisor before they are allowed to register for classes.

If a student has attended another college since their last enrollment at Clark College and wants to apply those credits to a Clark College program, an official transcript needs to be sent to the Admissions Office. Students should have an unofficial copy of their transcripts mailed to their homes to use during their advising session. The Admissions Office cannot make unofficial copies of transcripts for students. All admission materials become the property of the college and will not be returned to the student or forwarded to another institution.

Re-entry Student Admission

Students who have attended Clark College within the past five (5) quarters are considered continuing students for purposes of registration and advising. If any contact information has changed since the last enrollment date, students need to submit an Update Form to the Registration Office. Information on registration access dates and times can be obtained online using the student ID number and global PIN. If assistance is needed, contact the Registration Office in Gaiser Hall or call 360-992-2183.

Special Admission Programs

The following programs are limited and/or competitive entry and require completion of specific entrance requirements as well as submission of separate applications and application fees:

Dental Hygiene Medical Assistant

Medical Radiography Nursing
Pharmacy Technician Phlebotomy

Refer to the Clark College website at www.clark.edu or section C of this catalog for further information. Because selection criteria are subject to change, the Clark College website is the most current source of information.

Exception to Admission Policy

Students who are 14 to 17 years of age, have not completed high school (excluding Running Start students), and would like to enroll in college classes need to apply for Exception to General Admissions. To be considered for Exception to General Admissions the following is needed:

- Completed Clark College Admissions Application;
- A non-refundable admissions application fee;
- Completed Exception to General Admissions Form;
- Read and sign the Campus Environment Statement;
- Submit two (2) high school counselor recommendation forms completed by your high school counselor and another school official;
- Submit a copy of your high school transcript; and
- Take and complete all sections of the COMPASS assessment test.

Completed applications need to be turned into the Office of Admissions by the stated deadlines. In some cases an interview with an Admissions official may be required. Students will be contacted with approval and registration access information after their file has been reviewed.

Application packets can be obtained from high school counseling offices or from the Clark College Welcome Center in Penguin Union Building room 002. Students must apply for Exception to Admissions each quarter until they meet full Clark College admissions requirements. For more information please contact the Admissions Office at 360-992-2107.

Homeschooled students can use an informed and involved contact other than a family member to complete the high school counselor recommendation forms. Recommendation forms from family members will not be accepted. For more information regarding applying for Exception to General Admissions as a homeschooled student please contact the Admissions Office.

Deadlines

Exception to General Admission applications need to meet the following deadlines. Those students who meet the deadline will receive priority review.

<u>Quarter</u>	<u>Deadline</u>
Summer	May 1
Fall	May 1
Spring	March 1
Winter	December 1

International Student Admission

360-992-2390

Clark College accepts qualified international students from around the world who wish to study in the U.S. using a student visa.

To be eligible for admission, applicants must complete a college preparatory program in their home country, and submit the international student application form found on the International Programs Web page at: www.clark.edu/international.

The completed application includes:

- official transcripts from previous high school and college or university,
- a non-refundable application fee
- a courier fee (if outside the U.S.)
- either the TOEFL, IELTS, SLEP, STEP-Eiken test scores, or complete the required level ESL course from an English language school
- a 300-500 word essay.

Applicants must also submit a bank statement with their application to prove that sufficient funds are available for their first year of study. Resources must cover cost of tuition, fees, books, medical insurance, living expenses and transportation.

Medical insurance while in the U.S. is mandatory and will be added to the student's bill each quarter.

International students must enroll for a minimum of 12 credit hours each quarter and are not allowed to work off campus.

Residency Classifications

To qualify for any of the residency classifications listed below, students must be U.S. citizens, resident aliens, refugees or non-immigrant aliens with visa classifications of A, E, G, H, I, K or L.

Residency Classification Definitions

Washington In-State Resident: a person who meets the qualifications of citizenship listed above, has been domiciled in the state of Washington for a minimum of 12 months prior to the beginning of the quarter and has taken actions to declare Washington as their state of permanent residence.

Washington Non-Resident Waiver: a person who meets the qualifications of citizenship as listed above and who has been domiciled in the state of Washington for less than 12 months prior to the beginning of the quarter.

Non-Resident: a person who resides outside of the state of Washington and does not qualify for the Oregon Border Waiver; a person who does not submit the required documents for the Washington Non-Resident Waiver, Oregon Border Waiver or Oregon Border Opportunity Waiver.

Non-Resident Refugee: a person who holds Refugee-Parolee status and has established a domicile in Washington before the first day of the quarter.

Non-Citizen: a person who does not meet the qualifications of citizenship as listed above, regardless of their length of time domiciled in the state of Washington.

Oregon Border Waiver: a person who meets the qualifications of citizenship as listed above and who has been domiciled in one of the 13 qualifying Oregon border counties for a minimum of 90 days prior to the beginning of the quarter.

Oregon Border Opportunity Waiver (HB1474): a person who meets the qualifications of citizenship as listed above, was domiciled in a qualifying Oregon border county for at least 90 days immediately prior to moving to Washington state, has been domiciled in Washington for less than 12 months and has taken all steps to declare Washington as their state of permanent residence.

Qualifying Oregon Border Counties: Columbia, Gilliam, Hood River, Multnomah, Clatsop, Clackamas, Morrow, Sherman, Umatilla, Union, Wallowa, Wasco or Washington.

Applying for Residency Reclassification

Students are granted residency classification based on the information provided on the initial admissions application. The student is responsible for submitting the appropriate application and supporting documentation to have residency reviewed for a reclassification to a new category. Applicants who are not U.S. citizens are required to submit a copy of their permanent resident card or I-94 for reclassification consideration. All residency reclassification requests and documentation are accepted until the 30th calendar day of the quarter. The college has ten (10) business days to review a completed application before making a decision on the reclassification request. If the application is approved, adjustments to the tuition will be applied to the quarter for which the reclassification was submitted. If the application materials are incomplete or received after the 30th calendar date, the request will be reviewed for the following quarter.

Supporting documentation is defined in two categories: proof of physical presence and proof of intent to remain in the state of Washington. Students applying for reclassification will be asked to provide these documents as part of their application materials. Acceptable types of documents are listed below.

- Proof of Physical Presence (one document required, showing at least 12 months)
- Copy of mortgage closing statement for the home in which the student resides;
- Copy of a rental/lease agreement for the home in which the student resides; or
- Copy of rental receipts or mortgage payment receipts for the home in which the student resides.
- Proof of Intent to Remain (three documents required, each showing at least 12 months)
- Valid Washington driver's license;

- Valid Washington voter registration;
- Valid Washington vehicle registration (not title);
- Proof of permanent full-time employment; or
- Verification of checking, savings or safe deposit box accounts located at a bank in Washington
- * Note that the Oregon Border Opportunity Waiver also requires proof of Oregon Border county domicile in addition to the documents listed above. The Washington Non-Resident Waiver requires one piece of documentation from the list above, while the Oregon Border Waiver requires one piece of documentation from the list above from Oregon rather than from Washington. For additional details, refer to the directions on the application forms.

The forms are available online at www.clark.edu/admissions or by visiting the Welcome Center in Penguin Union Building room 002.

- Washington Residency Reclassification Form: used to apply for in-state status by those who did not reside in Washington state for at least 12 months prior to enrolling at Clark College.
- Border County Opportunity Application HB1474: used to apply for in-state status by those who qualify under the Oregon Border Opportunity Waiver guidelines.
- Washington Non-Resident Waiver: used to apply for the waiver by those who originally applied for admissions with a non-Washington state address and who have since moved to Washington and established a domicile.
- Oregon Border Waiver: use to apply for the waiver by those who are domiciled in a qualifying Oregon border county.

Washington residency is governed by RCW.28B-15, RCW 46.16.028, RCW 46.20.021, WAC 250-18 and WAC 208-104-006. Contact the Admissions Office at 360-992-2107 with any questions you have regarding your residency status or how to apply for a reclassification. You can also visit our office in the Welcome Center, located in room 002 of the Penguin Union Building.

HB 1079 (Undocumented Person) Waiver

Effective July 1, 2003, Washington state law (HB1079) was changed to make certain students, who are not permanent residents or citizens of the United States, eligible to pay resident tuition rates. To qualify, students must complete an affidavit declaring they have:

- Resided in Washington state for the three (3) years immediately prior to receiving a high school diploma, and completed the full senior year at a Washington high school, OR completed the equivalent of a high school diploma and resided in Washington state for the three (3) years immediately before receiving the equivalent of the diploma, AND
- Continuously resided in the state since earning the high school diploma or its equivalent AND
- Certify that they will file an application to become a permanent resident of the United States as soon as they are eligible to apply.

Active Duty Military

Active duty military stationed in the state of Washington, as well as their spouses and dependents, qualify as residents for tuition purposes. At the time spouses or dependent family members apply for admission, documentation such as a copy of the military ID card or other appropriate documents must be presented.

Washington National Guard

Washington National Guard members, as well as their spouses and dependents, qualify for resident tuition as long as they are domiciled in Washington.

Veterans Tuition Exemption

Contact the Veterans Affairs Office at 360-992-2112 for information regarding eligibility criteria for the Veterans Tuition Waiver. You must provide the original or certified copy of form DD214.

Tuition Waivers

Most tuition waiver guidelines and charges are set by the Washington state legislature and may change on an annual basis. Those eligible for waiver are listed below, under the departments that serve them.

- Registration Office
- Clark College employee
- Classified state employee or Washington Public Higher Education employee
- Senior Citizen Gold Card
- Admissions Office
- Children of Deceased Law Enforcemen Officer or Firefighter
- Native American Waiver
- Washington Non-Resident Waiver
- Oregon Border County Waiver
- Non-Resident Refugee Waiver
- High School Completion Office
- High school completion
- Veterans Affairs Office
- Military personnel
- Running Start Office
- Running Start

New Student Orientation

Starting in fall 2010, all new incoming Clark College students who have never attended college before are required to attend a New Student Orientation session before they are granted access to registration services. Students will gain valuable information about support resources, critical dates and policies, online tools and academic advising at the orientation. They will also register for classes and have the option of participating in a campus tour. To attend, students need to visit the online registration page to sign up for a session. For current information on upcoming dates for specific quarters, visit our website at www.clark.edu/orientationcalendar.

Financial Aid

The Financial Aid Office helps eligible degree- and certificate-seeking students obtain funds to help meet their educational expenses at Clark College. During 2009-2010, more than 10,800 students benefited from over \$ 45 million in federal, state, institutional, and private financial aid.

Financial Aid Contact Information

The Financial Aid Office is located in Gaiser Hall.

Clark College phone: 360-992-2153 Financial Aid Office – MS #18 e-mail: finaid@clark.edu

1933 Fort Vancouver Way fax: 360-992-2864

Vancouver, WA 98663-3598 web: www.clark.edu/finaid

Application Process

All applicants must have applied for admission to Clark College to be considered for financial aid. As part of this process, applicants must submit official copies of academic transcripts from all colleges they attended previously to the Clark College Admissions Office, whether they received financial aid at those schools or not.

Students apply for financial aid by completing the Free Application for Federal Student Aid (FAFSA) and the Clark College Data Sheet. The best way to submit the FAFSA is electronically, using the U.S. Department of Education's FAFSA-On-The-Web at www.fafsa.ed.gov. Clark College's Federal School Code, which is needed on the FAFSA, is 003773. Students and parents should request and use Personal Identification Numbers (PINs) as their electronic signatures for this process. PINs may be requested at www.pin.ed.gov. Financial Aid Clark College Data Sheets are required to be considered for state and institutional financial aid and are available on the Clark College website at www.clark.edu/finaid-forms. The Financial Aid Office has computers available that can be used to make application.

The FAFSA should be completed as soon as possible after January 1 for the next academic year that begins in the summer and also includes fall, winter, and spring quarters. Applicants should submit the Clark College Data Sheet and respond to any requests for additional information (such as signed copies of federal income tax returns) as quickly as possible to receive priority funding. Priority processing dates are established each quarter and are available on the Clark College website.

Eligibility Criteria

The basic eligibility criteria for federal, state, and institutional financial aid include:

- being a U.S. citizen/national or eligible non-citizen.
- being registered with the Selective Service System if required.
- being admitted to and enrolled in an eligible degree or certificate program (typically one that requires the completion of at least thirty-six [36] credits).
- having a high school diploma or General Education Development (GED) certificate, or having passed an approved ability-to-benefit test (such as the COMPASS) or having successfully passed six (6) quarter hours of coursework that is applicable to a degree or certificate offered by Clark College.
- making satisfactory academic progress as defined by the school.
- not being in default on a federal education loan.
- not owing a refund or repayment on a federal grant.

Students' eligibility for certain kinds and amounts of aid is determined through a series of standardized calculations known as Federal Methodology. Household size, income, assets, and other data elements are assessed and an Expected Family Contribution (EFC) is calculated. The EFC represents the amount that a student's family is deemed to be able to contribute toward the student's educational costs during the academic year. The EFC is subtracted from the Cost of Attendance (COA) that each school uses. The result is the student's "need" or eligibility for financial assistance for that academic year.

Financial Aid Awards and Disbursements

Grants and loans credit toward a student's tuition and fee charges at the beginning of each quarter as long as the student is enrolled in the number of credits for which his or her financial aid eligibility was determined. In addition, loans require separate applications and, for new Federal Direct Student Loan borrowers, the successful completion of an online entrance counseling session and signing of a Master Promissory Note. Work study funds do not credit toward the student's charges; they are earned hourly after the recipient obtains employment and begins working.

If the student's financial aid award does not equal his or her tuition and fee charges, he or she will have a balance owing that must be paid to the Cashier. If the student's financial aid exceeds the amount of his or her tuition charges, the student will receive a check for the difference. Checks are available in the Student Center in Gaiser Hall during the first two (2) days of the quarter, and from the Cashier during the rest of the quarter.

Once the student has picked up his or her check, he or she should not change their enrollment level for that quarter. Dropping credits after receiving financial aid may result in the student having to repay a portion of his or her funds for that quarter, may place the student out of compliance with the Satisfactory Academic Progress policy (see the Satisfactory Academic Progress section), and may jeopardize the student's future financial aid eligibility.

Students who withdraw completely during the quarter may owe a repayment of some of the funds they received as calculated under the federal Return of Title IV Funds policy (see the Return of Title IV Funds section). A student who owes a repayment must repay the funds to maintain their future financial aid eligibility for attendance at any school.

Financial aid awards can change for a variety of reasons. If a student declines an award, the Financial Aid Office will cancel it. If a student's enrollment plan for future quarters change, his or her financial aid award will change as a result. For this reason, students must inform the Financial Aid Office when their enrollment plans change. On rare occasions, the Financial Aid Office may have to reduce or withdraw funds that were awarded because those funds are no longer available.

Revised information about student or parent income and assets received after the student's funds are awarded may result in an increase or decrease to a student's award. If a student receives an outside scholarship or agency funds after his or her financial aid has been awarded, the Financial Aid Office may be required to reduce the student's financial aid if his or her receipt of those additional funds results in the student's federally defined need being exceeded. If a student presents documentation of extenuating circumstances that affects his or her ability to pay college costs, the Financial Aid Office may be able to increase the award. Forms to request this consideration are available in the Financial Aid Office.

If a student becomes ineligible for financial aid due to their failure to comply with the Clark College Satisfactory Academic Progress policy, the Financial Aid Office will cancel his or her financial aid until he or she regains eligibility by completing credits at his or her own expense or having an appeal for continued aid approved. If a student is placed on academic suspension by the college, he or she will be ineligible for continued aid regardless of his or her compliance with the Satisfactory Academic Progress policy. In either case, any funds received after losing eligibility must be returned to their source.

Maintaining Your Financial Aid: Satisfactory Academic Progress (SAP)

Colleges are required to monitor the academic progress of federal and state financial aid recipients according to federal and state guidelines. Academic progress is measured according to the students' credit hour completion per quarter and by program, and by quarterly and cumulative grade point averages as described in the table below.

Maximum Time-Frame—Federal and Institutional Aid

Students can only receive federal and institutional financial aid for a maximum of 125% of their required program as measured in attempted credit hours. For example, students whose program requires the completion of ninety (90) credits may only receive federal and institutional funds for attempting 135 college-level credits. These credits will include all credits taken at Clark College, as well as all transfer credits from other colleges that Clark College accepts. Up to forty-five (45) developmental education (DVED) credits may be attempted and will count toward this total.

Maximum Time-Frame—State Aid

Students can only receive state financial aid for a maximum of 125% of their required program as measured in attempted credit hours. For example, students whose program requires the completion of ninety (90) credits may only receive state funds for attempting 112 college-level credits. These credits will include all credits taken at Clark College, as well as all transfer credits from other colleges that Clark College accepts. Up to forty-five (45) developmental education (DVED) credits may be attempted and will count toward this total.

Apart from maximum time-frame considerations, students may receive funding for a maximum of two (2) degrees and/or certificates at Clark College.

Credit Hours

Students are expected to complete at least the minimum number of credits in their enrollment level, rounded to the nearest whole credit as shown in the table (right), to comply with the Satisfactory Academic Progress (SAP) policy. For example, a student who enrolls in and is funded for fifteen (15) credits fall quarter must complete at least twelve (12) credits to comply with the SAP policy. A student who completes fewer than the required number of credits will be placed on financial aid probation or financial aid suspension.

Students who complete at least six (6) credits but less than 100% of the minimum credit hours in their enrollment level (see table) are placed on financial aid probation. During their next quarter of enrollment, those students must complete the appropriate number of the credits for their enrollment level (see table). Students who fail to do so will be placed on financial aid suspension and must complete a minimum of five (5) credits in one quarter at their own expense to regain financial aid eligibility. For example, a student who enrolls full-time fall quarter and completes ten (10) credits is placed on financial aid probation. If that student enrolls full-time again winter quarter and completes twelve (12) credits, they are again in compliance with the SAP policy. If, however, that student enrolls full-time winter quarter and again completes ten (10) credits, they are placed on financial aid suspension and must pay for and successfully complete at least five (5) credits at their own expense to regain financial aid eligibility.

Students who complete less than six (6) credits are placed on financial aid suspension and must complete a minimum of five (5) credits with a quarterly GPA of 2.0 at their own expense to regain financial aid eligibility. If you enroll in more than five (5) credits, you must successfully complete the range of credits in that enrollment level with a quarterly GPA of 2.0.

Credits with grades of F, I, N, U, W, or Y (see Grades and Records, Grade Legend) are considered credits attempted, but do not constitute successful credit completion for SAP policy purposes. Grades of A, B, C, D and S constitute successful credit completion for SAP policy purposes (Note: grades are handled differently for academic purposes; for example, a grade of "C" or higher may be required to advance to the next class in a sequence).

The following table shows the minimum credit completion requirements for each enrollment level:

12 or more credits attempted

Enrollment level	Full time	
Satisfactory Academic	Progress Status	
 Compliance 	12 or more	
 Probation 	6 to 11	
 Suspension 	5 or fewer	
9 to 11 credits attempted		
·		
9 to 11 credits attempted Enrollment level Satisfactory Academic	Three-quarter time Progress Status	
Enrollment level	Three-quarter time	
Enrollment level Satisfactory Academic	Three-quarter time Progress Status	

6 to 8 credits attempted

Enrollment level	Half time
Satisfactory Academic	Progress Status
 Compliance 	6 to 8
 Probation 	6 to 8 below 2.0
 Suspension 	5 or fewer
5 or fewer credits attempt	ted
Enrollment level	Less than half time
Satisfactory Academic	Progress Status
 Compliance 	All credits attempted
 Probation 	Not available
 Suspension 	Less than all credits attempted
	or quarterly GPA below 2.0

Grade Point Average (GPA)

Students must also maintain 2.00 or higher quarterly and cumulative GPA to be in compliance with the SAP policy. Students who do not do so will be placed on financial aid probation or financial aid suspension.

Students who do not earn a 2.00 or higher quarterly GPA are placed on financial aid probation and must earn a 2.00 or higher GPA during their next quarter of enrollment to maintain financial aid eligibility. Students who fail to do so will be placed on financial aid suspension and must attend at their own expense until they earn a 2.00 or higher quarterly GPA. Students in this situation will regain financial aid eligibility for their next quarter of enrollment after the quarter in which they earn a 2.00 or higher quarterly GPA.

Students must also attain a 2.00 or higher cumulative GPA by the end of their sixth quarter of enrollment. Students who fail to do so must attend at their own expense until their cumulative GPA is 2.00 or higher. Students who are beyond the maximum time-frame described above are ineligible for continued financial aid regardless of their GPAs. Students who are on academic suspension are also not eligible for continued financial aid regardless of their GPAs.

Appeals

Students who have been placed on financial aid suspension who feel that circumstances outside their control contributed to their situation may submit a written appeal to the Financial Aid Office. Appeals must include:

- 1) a statement from the student explaining why the situation occurred, how they have resolved it, and how they will recover academically (a plan for future educational success);
- 2) a degree audit or long-term plan developed with an academic advisor that shows the credits the student must take to complete their intended program; and
- 3) appropriate documentation of the student's situation, such as a statement from a physician, social worker, or counselor. If the student is citing a medical reason, a release to return to school will be required from the doctor.

The Financial Aid Appeals Committee reviews appeals throughout the academic year. A student whose appeal is approved will regain and retain financial aid eligibility by complying with the committee's directions for credit completion, grade point average increase, or both. If a student's financial aid eligibility is reinstated, the student might not receive the original award. Aid will be based on the funds available at the time of reinstatement. Students whose appeals are denied must complete credits at their own expense as directed by the committee before they can regain financial aid eligibility. Students who exceeded the maximum time frame and exhaust their financial aid eligibility will not be reinstated. The decisions of the Financial Aid Appeals Committee are final.

Return of Title IV Funds

Students who receive financial aid are subject to the federal Return of Title IV Funds Policy (R2T4) as well as the Satisfactory Academic Progress (SAP) policy. The R2T4 policy is effective only if a student completely terminates enrollment by withdrawing from all credits. Students who remain enrolled through at least 60% of the payment period (quarter) are considered to have earned 100% of the aid received and will not owe a repayment of federal Title IV funds. If a student completes at least one course they will be subject to the Satisfactory Academic Progress policy, rather than the Return of Title IV Funds Policy. Federal financial aid recipients are subject to both the federal policy for Title IV aid and the Clark College institutional refund policy for institutional aid.

A student's withdrawal date is one of the following:

- 1. The date the student began the institution's withdrawal process or officially notified the institution in writing of intent to withdraw;
- 2. The midpoint of the period for a student who leaves without notifying the institution;
- 3. The student's last date of attendance at a documented academically related activity; or
- 4. The student's last date of attendance as reported by their instructor for a student who leaves without notifying the institution.

Funds are returned to the following sources in order of priority, as established by Congress:

- 1. Unsubsidized Direct Student Loans
- 2. Subsidized Direct Student Loans
- 3. Direct PLUS Loans
- 4. Federal Pell Grants
- 5. Federal SEOG
- 6. Other federal, state, private or institutional financial assistance

There are six basic steps to the formula for calculating the amount of funds that must be returned to the Title IV programs:

- 1. Determine date of withdrawal and percentage of payment period attended by the student.
- 2. Calculate amount of Title IV aid earned by the student.
- 3. Compare amount earned and amounts disbursed to determine amount unearned.
- 4. If amount earned is greater than amount disbursed, determine late disbursement.
- 5. If amount earned is less than amount disbursed, determine amount of Title IV aid that must be returned.
- 6. Calculate portion of funds to be returned by institution and student. Both Clark College and the student have specific responsibilities under this policy. Students who owe a repayment due to the return of Title IV funds must pay that obligation before regaining eligibility for additional financial assistance.

Washington State Need Grant Repayment Policy

Students receiving Washington State Need Grants who then withdraw from all classes prior to the 50% point in time during the quarter will have their Washington State Need Grant eligibility reduced to reflect the "amount of Title IV aid earned by the student" as determined through the Return of Title IV Funds calculation.

For example, if a student is eligible to retain 50% of his/her Title IV aid, and that student received an \$816 disbursement of Washington State Need Grant funds, the student would be allowed to retain \$408 of the Washington State Need Grant funds for that quarter. Only repayments of \$50 or more will be identified.

Students who withdraw from all classes after the 50% point in time during a quarter are eligible to retain all of their financial aid, including the Washington State Need Grant.

Financial Aid Programs

Financial aid consists of grants, scholarships, work-study and loans. Clark College participates in all of the major federal and state financial aid programs. The financial aid programs available to Clark College students include the following:

Grants

Grants are typically awarded to applicants who demonstrate the highest federally defined "need." Because of funding limitations, some grants are awarded to the needlest early applicants.

Federal Pell Grants are awarded according to a federal formula to eligible students who have not yet earned a bachelor's degree. Award amounts are determined by the student's EFC and the number of credits in which the student is enrolled each quarter.

Federal Supplemental Educational Opportunity Grants are awarded to Federal Pell Grant recipients who demonstrate "exceptional need." Funding for this program is extremely limited.

Washington State Need Grants are awarded to eligible Washington residents based on income criteria established by the state. Eligible students can be enrolled in three (3) credits or more. Funding for this program is limited.

Tuition Waivers and Clark College Grants are awarded to eligible Washington residents enrolled in at least three (3) credits per quarter and who have significant financial "need." Funds in both programs are extremely limited. Tuition waivers cover tuition but not fees, books, or supplies costs. Clark College Grant amounts vary.

Scholarships

Clark College offers one of the best-funded community college scholarship programs in Washington. The Clark College Foundation awards scholarships to students in both transfer and professional/technical programs. Applications are available in January from the Financial Aid Office and from the Clark College website at www.clark.edu/finaid. Applications must be submitted to the Financial Aid Office in early April. The Financial Aid Office also has information and applications for a variety of state and private scholarships. Students can access scholarship information online or in person at the Financial Aid Office.

Student Employment

Clark College participates in both the federal work-study and state work-study programs. Funds in both programs are limited. Students who demonstrate federally defined "need" are awarded available funds that can be earned by working at jobs either on or off campus. While the offer of a work-study award does not guarantee a job, most recipients of work-study funding who want to work are able to find employment. Contact the Employment Services Office for further information.

Loans

Clark College participates in the Federal Direct student loan and Federal Direct PLUS programs. Federal Direct student loans are available up to certain annual maximums to eligible students enrolled at least half-time (six (6) credits per quarter). Borrowers who demonstrate "need" that has not been met by other aid can borrow subsidized loans that do not accrue interest while the student is enrolled and for a six-month grace period afterward. Borrowers whose "need" has been met or who do not demonstrate "need" can borrow unsubsidized loans that begin to accrue interest when they are disbursed. Students must make satisfactory academic progress in order to receive these loans from quarter to quarter. *Please see Satisfactory Academic Progress for details.*

Federal Direct parent loans for undergraduate students (PLUS) are available to credit-worthy parents of dependent students. Interest on these loans begins to accrue when the funds are disbursed. Repayment begins sixty (60) days after the last disbursement of the loan for the academic year. Students must be enrolled at least halftime (six (6) credits per quarter) to be eligible to receive proceeds from these loans. Students must make satisfactory academic progress in order to receive these loans from quarter to quarter. *Please see Satisfactory Academic Progress for details.*

Students who wish to borrow must complete the Free Application for Federal Student Aid (FAFSA) and submit all requested documents so the Financial Aid Office can determine student need. Once need and grant funding has been determined, students must complete a separate loan application and successfully complete the loan entrance interview and Master Promissory Note. The loan application process and forms are available online at www.clark.edu.

When students withdraw completely, drop below six (6) credits in a term, transfer to another college, or graduate, they are required to complete an exit interview. The exit interview informs students and parents of their loan repayment options, repayment start dates and deferment option that are available to prevent student loan default.

Sponsored Programs Assistance

360-992-2307

Clark College Sponsored Programs staff, located in the Financial Aid office, serve as a central point of contact for current and future students attending Clark under agency sponsorship (e.g., Dislocated Workers, Labor and Industries, WorkSource affiliates, etc.). The staff serves as a liaison between students, sponsoring agencies, and other appropriate Clark personnel.

Admissions assistance and information referrals are provided for students on sponsored programs. There is an administrative fee in addition to tuition for agency-sponsored accounts.

Opportunity Grant

360-992-2039

Opportunity Grant helps eligible students get started in training programs and prepares students for high-demand occupations. The grant pays for tuition, mandatory fees, and required books and supplies. The student must be a Washington state resident, meet income guidelines, and be seeking an approved Opportunity Grant program.

Worker Retraining

360-992-2922

Worker Retraining offers services to unemployed workers who are interested in upgrading their skills or learning new skills. Worker Retraining provides current information on occupations and training options at Clark College. Financial assistance for the costs of tuition, books and fees is also available to eligible unemployed.

WorkFirst College Programs

Various programs are available to parents who are receiving Temporary Assistance for Needy Families (TANF). Training is directly related to employment and wage progression.

WorkFirst Financial Aid (free tuition)

360-992-2915

Tuition assistance for TANF parents. Training is directly related to employment and wage progression. WorkFirst Work Study Provides TANF recipients a work-study job on campus while they take classes to improve their skills.

Veteran Educational Benefits

360-992-2711

Eligible veterans and dependents are granted certification for approved certificate and degree programs, and can receive benefits for only those courses that are applicable toward their chosen objective. Eligible students must report any change in their classes to the Veterans Affairs Office.

Students receiving educational benefits are expected to maintain satisfactory progress. In the event academic probation is imposed, students are given the next quarter to demonstrate significant improvement; otherwise, their educational assistance will be terminated. In the event of academic suspension, recertification will be allowed only upon approval from the Department of Veterans Affairs.

- Withdrawing from a Class Recipients of benefits should consult with a veterans advisor before withdrawing from a class.
- Withdrawing from the College Veterans are required to notify the Veterans Affairs Office of their last day of attendance at the time of withdrawal.
- Auditing a Class Veterans cannot receive benefits for classes that are audited.

- Incomplete Grades Veterans benefits will be reduced for "I" (Incomplete) grades. However, they will be reimbursed when the incomplete is removed and a new grade has been assigned. Incomplete grades must be completed as stated by college policy.
- Change of Address Veterans must report any change of address directly to the Department of Veterans Affairs. Information and phone numbers can be obtained from the Clark College Veterans Affairs Office.

Military Experience Credit Students may be granted general elective credit for experience gained from military training. Credit recommendations are based on the American Council on Education (ACE) guidelines. Clark College does not post military experience credit as a specific course. The transcript will reflect the credits under the heading of "Military Experience" with the total number of credits granted. Military experience is a non-traditional credit program and is subject to the restrictions listed in the Non-Traditional Credit Policy section of this catalog.

Contact the Veterans Affairs Office in the Financial Aid Office at Clark College for further information.

Scholarships

Scholarship funding is made possible through the generous support of individuals and organizations. Quite often, those who received scholarships while they were in college wish to give back to today's students. These donors believe in the importance of education and recognize Clark College as the premier institution of higher learning in Southwest Washington. Because of their generosity, more than 100 scholarships are available to students who qualify and submit the required application form(s).

Some scholarships have basic qualifications, such as academic, athletic or artistic talent. Others are available to students who are interested in a particular field of study, who are members of an underrepresented group, or who come from certain geographic areas.

Generally, applications are made available online in mid-December and are due to the Financial Aid Office in mid-April for the following academic year. A number of transfer scholarships, designed to assist with tuition expenses at four-year schools, are also available to students graduating from Clark.

Scholarship applications, qualification criteria and helpful tips and instructions can be found on the Clark College website at www.clark.edu/scholarships.

Placement Testing

360-992-2648

Placement testing is the first step toward student success. As a community college, Clark serves a very diverse population with classes ranging from adult basic education to university transfer programs. Prior to taking the placement test, students must complete an application for admission and pay the \$20.00 admissions/testing fee.

The COMPASS placement test assesses writing, reading and mathematics skills, which helps determine the level of coursework for which the student is prepared and also readiness for entry into specific programs.

All students entering the college for the first time are encouraged to complete placement testing. Placement testing is required for students wishing to enroll in English, reading, psychology, sociology and/or mathematics courses. Students should also complete their placement test prior to attending a New Student Orientation.

The COMPASS test is not utilized like a traditional pass-or-fail test. There is no "passing" score. Scores indicate areas in which a student is strong and areas for improvement. The information will not be used to deny admission to the college.

Placement testing is offered on a walk-in basis at the Assessment Center, located in the Penguin Union Building, room 015. Testing hours are available at www.clark.edu/assessment or by calling 360-992-2588.

Placement Testing Retest Policy

All students are allowed an initial COMPASS placement test at no additional cost. After receiving the results, students have the following options:

- a. Enroll in the courses into which they were placed.
- b. Request a retest using COMPASS examinations. Students may test on any or all of the three (3) modules (writing, reading, or mathematics). The COMPASS test is not a timed assessment.
 Each module requires a separate fee. Students will then be placed into classes using the higher of the two (2) scores.

Retesting

After the initial retest, students do have the right to retest periodically. Once a letter grade is received, a student may not retest without the explicit permission of the Dean of that area.

COMPASS

Individual modules may be taken once every three (3) months. Each module retest requires a separate fee. Once a student has taken a mathematics, reading, developmental education or English class and received a grade of record (A - F, not W), a retest will not be allowed in that subject area.

Distance Learning Proctoring

The Assessment Center provides proctoring services for students taking distance learning or correspondence courses. There is a fee for this service. Contact the Assessment Center at 360-992-2588 to discuss available proctoring options or visit www.clark.edu/assessment to download a proctor request form.

Foreign Language Placement

The Assessment Center offers placement into foreign language courses for students who already have a background in French, Spanish or German languages. The foreign language placement exams are computer-based and offered on a walk-in basis in the Assessment Center, located in the Penguin Union Building, room 015.

General Educational Development (GED) Testing

Clark College is an official General Educational Development (GED) testing site. The GED tests provide a high school credential to adults who have not graduated from a traditional high school. Participants in GED testing may go on to further their education at Clark College following the examination process or can participate in traditional college classes while completing the GED tests. Refer to page A2 for further information on the Admissions process.

The GED test is designed for adults who are 19 years old or above and who have not received a traditional high school diploma. Examinees who are 16 to 18 years old and wish to take the GED test must provide a high school release form from the school district in which they live.

The GED examinations are given in the following five (5) subject areas:

Writing Reading
Social Studies Science

Mathematics

Successful completion of each of these examinations leads to the issuance of a GED certificate.

In order to begin the process of obtaining a GED, all participants must register for testing with the Assessment Center. Registration is available Wednesdays, Thursdays and Fridays between 8:00 a.m. and 4:00 p.m. The Assessment Center is located in the Penguin Union Building, room 015. At the time of registration, each examinee must have the following items with them:

- Government-issued photo identification.
- Receipt of payment of the test fee from the Clark College Cashier or a voucher from the organization sponsoring the test.
- If under the age of nineteen (19), a high school release form.
- Appointments may be made for each GED test subject after completing the mandatory registration session.

GED preparation classes are available through the Clark College Town Plaza Center. Contact 360-992-2741 for further information.

Career Services 360-992-2902

www.clark.edu/student_services/employment online job database system: www.clark.edu/nextjob

Career Services provides the resources and strategies for choosing a college major; developing career plans; finding jobs, internships and volunteer opportunities; and making successful career transitions. Resources include a computer lab, an extensive library of books and videos, and one-on-one appointments with career and employment specialists. Services are free and open to students, former students and the general public.

Career Center resources:

- Assistance in assessing personal skills and interests to explore career options or select a course of study.
- Detailed descriptions of more than 1,000 occupations and industries.
- Information about employment outlooks, labor trends, wages and job preparation.
- Databases of universities, technical training programs and scholarships in Washington, Oregon and the United States.
- Strong Interest Inventory and Myers-Briggs Type Indicator assessments including a career report and 90-minute small group interpretation of results.

Employment services and work experience opportunities for students:

- An online job database system, NextJob, on the Career Services website: www.clark.edu/nextjob
- Work study and institutional hire job referrals for on- and off-campus student employment opportunities.
- Local and statewide full- and part-time job listings.

Job search and employment preparation services:

- Assistance with resume writing, cover letters and interviewing skills.
- Job- and career-related workshops and resources.

Employer services:

- On-campus recruiting table, free of charge.
- Free advertisement of job and internship vacancies.

- Multiple career events each year, including targeted job fairs and employer guest speakers discussing various career fields.
- Opportunities to serve on college advisory boards.
- Equal opportunity guidelines are followed and applicants are referred on a non-discriminatory basis for all
 possible co-op, internship, volunteer or job placements.

Cooperative Education/ Internship Work Experiences

360-992-2391

Clark College recognizes the value to students of actual experience in a work environment and has developed a nationally recognized program which allows credits to be earned for that experience under controlled conditions.

The purpose of Cooperative Education Work Experience (co-op) is to provide on-the-job experience that complements students' academic career goals and that furnishes an opportunity for career exploration. Co-op involves the faculty, student and employer in determining learning objectives and evaluating the student's progress in achieving those objectives. Students may use internship experiences to test their interest in a field or their fit in the work environment of a particular industry.

Equal Opportunity guidelines are followed and students are referred on a non-discriminatory basis for all possible cooperative education, practicum, clinical experience or job placements.

Service Learning

360-992-2447

www.clark.edu/cc/volunteer

Service learning is a method of education in which students learn and develop through active participation in thought-fully organized service experiences that meet actual community needs and that are coordinated in collaboration with school and community. Service learning focuses on critical reflective thinking and civic responsibility. The Service Learning program supports students in implementing service and civic-engagment projects at the college and in the community.

Advising

360-992-2345

www.clark.edu/advising

The mission statement for Clark College advising is:

By providing accurate, timely and consistent information, Advising personnel at Clark College, in collaboration with faculty: guide, support, and help students develop lifelong learning skills, assist students as they plan and achieve their educational and career goals, and work with students to establish a lasting relationship with Clark College.

As a result of working with advising personnel, students will:

- Develop an understanding of their own educational pathway so that remaining classes and timeliness of completion are clear and accurate.
- Develop an educational plan that addresses academic, career, and life goals.
- Develop an awareness of their own personal responsibility within the advising process.
- Develop skills to successfully navigate and use campus services and tools.
- To ensure the communication of accurate program information to all Clark students, advising is required for all new students to Clark and at certain checkpoints during degree or certificate progress.

The advising system at Clark College is an educational process that assists students as they pursue educational, career, and life goals. It is expected that students will build relationships with advisors during their time at Clark College and, over the course of their degree or certificate, will attain the objectives listed above.

eLearning

eLearning@clark.edu

360-992-2654 or 877-748-2654 www.clark.edu/eLearning

What is eLearning?

eLearning at Clark College provides options to students that give them the opportunity to attend classes beyond the traditional on-campus experience.

What type of classes and programs are offered?

Clark College offers a combination of eLearning courses that fulfill the requirements for an AA general transfer degree. The two specific options are the Weekend Degree Program (WDP) and the option to complete your AA online. Please see www.clark.edu/eLearning for more information about WDP and AA Online. eLearning classes are offered in the following format:

- Online classes have activities that are completed in the online environment. Most online classes require no face-to-face contact between the students and the instructor, however there are a few exceptions so always check the class schedule. There is an eLearning fee associated with these courses in addition to tuition. The section numbers of online courses follow the format: "#DL."
- Hybrid classes combine traditional face-to-face classroom time with the flexibility of online learning. Typically, the on-campus time is reduced by 20 percent to 80 percent. The rest of the coursework is done online. There is an eLearning fee associated with these courses in addition to regular tuition. The section numbers of hybrid courses follow the format: "#H#." Weekend Degree Program classes are also delivered in the hybrid format, but the section numbers follow the format: "WD.
- Telecourse classes deliver all course content through videos and the textbook. They typically meet face-to-face weekly for exams. There is no online component to these classes. There is an eLearning fee association with these courses in addition to tuition. The section number follows the format: "#DL." Video viewing options and associate costs can be found on the eLearning website.
- Teleweb classes combine the video component of the telecourse with online activities, instead of weekly face-to-face meetings. There is a fee associated with these courses in addition to regular tuition. The section number follows the format: "#DL." Video viewing options can be found on the eLearning website.
- Web-Enhanced is a course that requires access to web-based tools on a regular basis but whose online activity does not replace any face-to-face seat time. Web-based tools may include but are not limited to: The eLearning LMS supported by eLearning, websites, or web-based e-books and software. These are not eLearning classes, and there is no eLearning fee associated with these courses.
- Weekend Degree Program leads a selected cohort of students through a specific course of study towards a general transfer Associate in Arts degree. Cohorts begin every Fall. Courses are hybrid format, meeting 3 weekends throughout the quarter. For more information, see the Weekend Degree Program.

How do I start an eLearning class?

eLearning classes follow the same campus policies and procedures as face-to-face classes; therefore, they have the same start and end dates, unless otherwise noted. This means students are expected to log into the Learning Management System (LMS) the first day of the quarter for class instruction.

Please visit the eLearning website at www.clark.edu/eLearning for up-to-date answers to frequently asked questions, technical help and information about how and where to log into your class.

Technical Requirements and Support

To see if you have appropriate technology for eLearning courses go to: www.clark.edu/eLearning/tech-reqs.php.

For technical support, eLearning maintains a tech support site: www.smartpenguin.org/smartpenguin. Students can find solutions to current technical issues, video tutorials, test taking tips and other helpful information. Feel free to contact our office via e-mail or phone for further assistance or to answer any questions.

Registration

360-992-2183

You've submitted your application. You're ready to take The Next Step and register for classes. At Clark College, we offer registration online, and in person at the Registration Office located in Gaiser Hall. If you are a new student or a student re-entering Clark College, you will be mailed information regarding meeting with an advisor and registering for classes after completing an application for admission and submitting it to the Admissions Office.

After your first quarter of attendance at Clark College, your registration access date/time can be found online prior to the beginning of the registration period for each quarter. A notification will be e-mailed to your Clark College e-mail address to let you know when registration access dates/times will be posted online each quarter.

Registration access dates/times times are based on cumulative credits earned at Clark College and additional credits transferred from accredited institutions. To have your transcripts from another institution evaluated, please send official transcripts from each college you have attended to the Registration Office in Gaiser Hall.

Specific information on dates, deadlines, and hours of service can be found in the quarterly schedule of classes or on the Clark College website at www.clark.edu.

Online Registration Services

The following services are available online for current Clark College students:

- Enrollment verification
- Change of address
- Registration access date/time

- Schedule Planner
- Student Global PIN change
- Student schedule

- Unofficial transcript
- Waitlist inquiry
- Degree Audit (online degree audit)

Online Registration

You may conveniently enroll online each quarter by taking advantage of online registration. You will need your SID (student identification number) and your registration PIN. You will receive information each quarter regarding your registration PIN from the Advising Department. By using online services you can also use our Schedule Planner tool to plan your class schedule. Schedule Planner allows you to select the most convenient times available for you to take classes and view available options at those times. Schedule Planner also offers a list of alternative classes and verifies your eligibility for classes requiring a prerequisite. Printing your class schedule and changing your address, phone, or e-mail are other convenient options available online at www.clark.edu.

Degree Audit

Clark College offers an online degree audit service to current Clark College students. By using Degree Audit, you are able to obtain an unofficial evaluation of credits you have earned at Clark College and credits you have transferred from other accredited institutions by submitting official transcripts during the admissions process. Degree Audit will evaluate your progress towards a Clark College degree and/or certificate. For an official evaluation of earned credits, students must submit an Evaluation Request or a Program Completion Application to the Credential Evaluations Office in Gaiser Hall.

Registration Policies

Credit Maximum

Students may register online or in person for 0-20 credits. Students who wish to add excess credits (i.e., 21 or more) must make an appointment and obtain written permission from an advisor or counselor to register over the credit maximum.

Late Add Policy

Beginning the first day of the quarter and through the tenth day of the quarter (eighth day in summer), the instructor's signature is required to enroll. The Late Registration Petition form is available at the Registration Office. Exception: When a course begins late in the quarter or is designated as variable credit (this includes weekend courses), instructional days are counted beginning the first day of the class. The Late Add Policy is applied based on the length of the class.

First Day Attendance Policy

It is essential that students attend the first class meeting of their courses. If a student is unable to attend due to an emergency or conflict of a serious nature, he or she should contact the instructor. If the instructor is not designated in the class schedule, the student should contact either the Division Office or the Office of Instruction who will direct the student appropriately. Students who fail to attend one (1) or more sessions during the first five days of the quarter may be dropped from the class. Students who miss any classes during the first five (5) days are responsible for verifying their enrollment status.

Note: Students dropped by the college during the first five (5) days of the quarter will receive a full refund of tuition and fees, if due.

Dropping a Class and Withdrawal from the College

Students who find it necessary to withdraw from classes must do so formally. The withdrawal is effective on the date a Change of Registration form is processed at the Registration Office. The dates for dropping and/or withdrawing from classes are listed in the quarterly schedule of classes.

- A class officially dropped before the tenth day (eighth day in summer) of the quarter will not be entered on the student's transcript.
- After the tenth day and through the eighth week of the quarter, classes formally dropped at the Registration Office will be posted to the student's transcript with a withdrawal grade of "W" assigned to the class.
- No withdrawals will be accepted after the last day of the eighth week of the quarter.
- For courses with unusual start and end dates, no withdrawals will be accepted after 80% of the class meetings have occurred.
- If the student decides not to attend, it is his/her responsibility to withdraw from all classes.

Late Withdrawal Appeals: Students unable to withdraw by the end of the eighth week of the quarter due to extenuating circumstances should contact the Instructional Dean's office by the end of the last scheduled class day.

Administrative Withdrawal: circumstances for consideration of an Administrative Withdrawal are:

- Verifiable error on the part of a Clark College employee.
- Miscommunication on the part of a Clark College employee that prevents a student from taking appropriate action.
- Documentable misinformation about college policies or procedures.

Please contact the Registration Office for information on petitioning for an Administrative Withdrawal.

Auditing a Class

Any student may enroll in a course on an audit basis with instructor's written consent and upon payment of the regular tuition and fees. Audit students will be exempt from examinations and will not receive college credit; however, the instructor may require reasonable attendance and class participation. To change from credit to audit or audit to credit, the student must complete a Change of Registration form at the Registration Office. Such changes may be made only with the written consent of the instructor and must be processed by the end of the tenth day of the quarter (eighth day in summer).

Student Attendance Status

Clark College considers twelve (12) or more credits to be a full-time student. The definition of "full-time student," however, may vary for certain agencies, such as the Immigration and Naturalization Service, Veterans Services, Financial Aid, Social Security, and insurance companies.

Student attendance status for Financial Aid and GI Bill is as follows:

Financial Aid

Full-time student 12 credit hours
Three-quarter-time student 9-11 credit hours
Half-time student 6-8 credit hours
Less than half-time student 1-5 credit hours

GI Bill attendance status for fall, winter and spring quarters

Full-time student 12 credit hours
Three-quarter-time student 9-11 credit hours
Half-time student 6-8 credit hours

GI Bill attendance status for summer quarter

Full-time student 8 credit hours
Three-quarter-time student 6-7 credit hours
Half-time student 4-5 credit hours
Less than half-time 3 credits or less

Absence

Students are expected to attend classes in which they are enrolled. Attendance may be a factor in grading for a course. When unavoidable absence occurs, it is the obligation of the student to notify the instructor and arrange for the make-up work deemed necessary by the instructor.

Change of Address

In order to ensure receipt of important information, students must notify the college of any change of address. Offices that should be informed include Admissions, Financial Aid and Registration. Student Update forms are available at the Registration Office and online at www.clark.edu.

Credit by Challenge

360-992-2183

Students who have previously taken courses and have established a transcript record at Clark College are able to challenge a course. If a student believes that previous experience has provided them with the competencies essential for passing a course, they might request to challenge that course. Students may not be currently enrolled in the course they wish to challenge and may not challenge courses if they have completed a course with a higher degree of difficulty. Some courses may not be challenged. Courses and grades resulting from the challenge process will be posted to the student's transcript record at the end of the quarter in which the exam is proctored. Please contact the appropriate instructional department for more information.

Special Projects (Independent Study)

360-992-2183

To provide for challenging learning experiences beyond regular course work, more advanced students may arrange to undertake special projects. With the approval of the division chair and under instructor supervision, students are given an opportunity to plan, organize, and complete independent study projects. Special projects are listed in the department course description section of the catalog as course number 290. No more than fifteen (15) credits in special projects will be allowed toward the associate in arts degree. Students are responsible to ensure that the credits earned do not exceed this limit and that credits earned will be accepted for transfer. Students should contact the instructor to register for a special projects course.

Tuition and Fees

At Clark College, we help people make their dreams come true. We offer excellent classes taught by outstanding faculty. In addition to affordable tuition, we also offer scholarships and financial aid opportunities to help you take the next step.

Tuition rates, based on residency requirements, are set by the Washington state legislature and the State Board for Community and Technical Colleges and are subject to change. The per-credit amount charged reflects three (3) fee collections: tuition, services and activities fees, and building construction fees. Students at Clark College have approved additional supplemental fees that support matriculation and facilities/on-campus parking charges, construction of a student union, and technology resources. Current tuition rates and information about tuition waivers are listed in each quarterly class schedule. Tuition and fees must be paid within ten (10) business days of registration prior to the start of the quarter. Beginning the first day of the quarter, tuition and fees must be paid on the same day as registration. Students who have not paid by that time will be dropped from their classes. Clark College offers a tuition and fee payment plan (STEPP) for students who need to fit their tuition expenses within their monthly budget. Information on STEPP can be obtained at the Cashiers Office.

Some class offerings such as customized training, community education, and others are not supported by state funds. There is no tuition charged for these self-support classes, however, there is a course fee. All students registering for these classes must pay the fee amounts published in the quarterly class schedule or other college publications.

Matriculation and Facilities/On-Campus Parking Fee*

Students are charged per credit hour to a maximum of twenty (20) hours for matriculation and facilities/on-campus parking.

Student Union Fee*

Students are charged per credit hour to a maximum of twenty (20) hours to support the construction of a student union (PUB).

Technology Fee*

Students are charged per credit hour to a maximum of twenty (20) hours for technology such as computer software, computer replacement, and technical lab assistance to maintain open computer labs. Other examples of technology available to students are online registration and student kiosks, and online services featured on the Clark College website.

*These fees are refundable on the same basis as tuition.

Additional Fees

Some courses may require payment of lab or course fees in addition to or instead of tuition. These fees help the college defray expenses not funded by the state. Fees are used for specific course expenses such as breakage, hazardous waste management, consumable supplies, special materials, minor repairs, and materials that become the property of the student.

Textbooks and Supplies

The Clark College Bookstore stocks required textbooks and supplies as requested by classroom instructors. Also available are many supportive suggested materials to assist in the student's class preparation and participation. The store staff understands the impact of class materials, thus provides the lowest price for textbooks of any college in this region and diligently pursues and stocks as many used textbooks as possible, partly supplied from a quarterly book buyback program. To assist in cost estimating, please visit the Clark College Bookstore on the main Clark College campus or visit their website at www.clarkbookstore.com.

Financial Obligations of the Student

Students are expected to meet their financial obligations to the college. Clark College staff will act in accordance with adopted procedures and, if necessary, initiate legal action to ensure that collection matters are brought to a timely and satisfactory conclusion. Collection fees will be added to debts owed the college.

Admission to, or registration with, Clark College, conferring of degrees, availability of grade information or issuance of academic transcripts, and other college services, will be withheld for failure to meet financial obligations.

Refund Policy

A student who officially withdraws through the Registration Office may receive a refund of tuition and certain fees. The complete Refund Policy is printed in the college information section of this catalog and in the quarterly schedule of classes.

Students who believe extenuating circumstances justify an exception to the policy may complete a Petition for Exception to the Refund Policy Form at the Registration Office. Exceptions may be granted for extreme, extenuating, urgent and unavoidable circumstances that prevent a student from withdrawing within the established guidelines. Exceptions may be granted for documented sudden medical emergencies that prevent a student from continuing successfully in their courses, death of an immediate family member or being called to active military duty. Requests for exceptions to refund policy are accepted through the eighth week of the quarter. Students receiving Financial Aid may not qualify for exceptions to the refund policy due to federal financial aid guidelines.

A separate refund policy applies to classes offered by Basic Skills (ABE, GED and ESL), Community Education and Mature Learning classes. For more information see the Adult Basic Education, GED, English as a Second Language, Community Education or Mature Learning sections of the class schedule.

Grades and Records

Grade Legend

Clark College uses the grading symbols listed below.

The grades A, B, C, and D may include pluses (+) and minuses (-).

A	4.0
A-	3.7
B+	3.3
В	3.0
B-	2.7
C+	2.3
C	2.0
C-	1.7
D+	1.3
D	1.0
D-	0.7

F	0.0
I	Incomplete
N	Audit
P	Pass
S	Satisfactory (credit only, no grade points)
U	Unsatisfactory (no credit, no grade points)
W	Official withdrawal
Y	In process/re-register

Grade Information

Students enrolled in credit classes may obtain grade information approximately eight (8) days after the end of each quarter. Students may access grades at a college student information kiosk or through the Clark College website: www.clark.edu.

Grade Point Average (GPA)

Grade points are calculated by multiplying the number of credit hours for each course by the decimal grade appropriate for the grade earned. The quarterly GPA is computed by adding the total number of grade points for the quarter and dividing by the total number of credits attempted in courses that received a letter grade.

_	Credit Hrs. Attempted	Grade	Grade Points Earned	
	5	B+ = 3.3	16.5	
	3	C = 2.0	6.0	
	8 Total Credits		22.5 Total Grade Points	

Dividing 22.5 by 8 computes to a grade point average of 2.81.

The student's cumulative grade point average may be obtained by adding the total number of grade points for all quarters and dividing by the total number of credits attempted in the courses that received a letter grade.

Incomplete Grades

An incomplete grade indicates that the student performed at a passing level, completed most of the course requirements, and intends to make up the missing work. Incomplete grades may be assigned at the discretion of the instructor if the student is unable to complete the work because of illness or other circumstances beyond the student's control. When assigning an incomplete grade, the instructor must provide a date for which the work must be completed, and the grade that will be entered on the student's transcript if the work is not finished on time. The incomplete grade remains on the student's transcript until the specified date or until the student completes the required work and the instructor submits an amended grade to the Registration Office.

In Process/Re-register

Students enrolled in variable credit or continuous enrollment courses may be given a "Y" grade if their effort is not sufficient to grant one (1) credit. Students must re-register and pay tuition to continue the course. A "Y" grade may also be used for courses which last more than one (1) quarter.

Pass/No Pass

Students may request to enroll in certain courses on a pass/no pass basis. Students must contact the Registration Office for information about courses approved for this option. No more than thirty (30) credits taken for pass/no pass will be allowed toward the associate in arts degree, associate in science degree, the associate in applied science degree, or the associate in applied technology degree. Students must earn a grade of "C" or better (2.00 GPA) to be given a "Satisfactory" grade in a pass/no pass course. An "Unsatisfactory" grade will be posted for students earning

less than a "C" grade. Students planning to transfer to a university should contact that institution to determine their policy for acceptance of pass/no pass courses.

Repeating a Course

Courses may be repeated to improve a grade earned, but credit will be granted only once. When students notify the Registration Office that a course has been repeated, the symbol "R" will be placed next to the first grade, and only the last grade earned will be used in calculating the grade point average. No courses may be repeated more than twice (defined as two repeats in addition to the original enrollment).

Students who plan to transfer to another institution should be aware that their GPA might be recomputed. Repeated courses will be received in accordance with the institution's own requirements and policies. Students receiving financial aid or Veterans benefits, or those participating in athletics, should consult those offices prior to repeating a course. Benefits or eligibility may be reduced or lost due to course repetition.

Setting Aside Past Record

Qualified students may set aside a previous substandard academic record that does not reflect their true ability at Clark College. Setting aside does not expunge the previous record, but places a "set aside" notation on the student's transcript, marking the term from which the college will calculate a new GPA for determining probation, eligibility, or honors at graduation. Students may not count credits set aside to fulfill credit requirements for graduation. Students should understand that the record to be set aside includes all courses taken before the date selected by the student.

Students may set aside a previous record if:

- They have earned fifteen (15) credits at Clark College beyond the quarter to be set aside.
- They have a 2.50 GPA at Clark College for these credits.
- The work to be set aside is at least one (1) year old.

Petition forms are available at the Welcome Center in the Penguin Union Building, PUB 002.

Caution: Although Clark College makes provisions for setting aside past records, students should not assume that other colleges to which they transfer will compute the GPA in the same manner. Only the Clark College record can be set aside; the college cannot set aside records from other colleges. Financial aid students will still be subject to federal regulations that require that all attempted credits be counted toward completion of an initial degree.

Grade Change/Error

Students who believe an error has been made in recording their grades should contact the Registration Office. If a recording error has been made, it will be corrected. If an error was not made when grades were posted, the student should contact the instructor. Grade changes are made at the discretion of the instructor. A "Change of Grade Form" must be signed and submitted to the Registration Office by the instructor. Grade changes and corrections made for Veterans and Financial Aid recipients must also be reported to the Office of Veterans Affairs and/or the Financial Aid Office.

Grade changes must be made no later than the end of the second quarter following the quarter the student attended the class.

Grade Change/Academic Appeal Policy

An academic appeal refers to a claim by a student that a specific grade assigned to the student by an instructor is the result of an arbitrary or capricious application of otherwise valid standards of academic evaluation or to a student's claim that the instructor has made an arbitrary or capricious decision or taken an arbitrary or capricious action which adversely affects the student's academic standing.

The student must file a written complaint within ninety (90) calendar days after termination of the course. The

appropriate instructional dean or supervisor may suspend this rule only under exceptional circumstances such as extended illness, sabbatical leave, or absence of one or both parties involved in the complaint. Grade appeal process forms are available through the instructional deans' offices or the Office of Instruction.

Students having complaints relative to academic performance evaluation should follow the steps below:

Step 1: The student should complete a grade appeal process form and discuss the complaint with the instructor. If the complaint is not resolved, proceed to Step 2.

Step 2: The student should speak to the appropriate division chair. The division chair must notify the student within fifteen (15) working days of the resolution after the meeting with the student. If the student is not satisfied with the resolution, the student should proceed to Step 3.

Step 3: The student will provide a written statement describing the nature of the appeal to the instructional dean or supervisor. A meeting will then be scheduled with the student, the instructional dean or supervisor, and the instructor to discuss the appeal. The instructor will receive a copy of the student's written material prior to the meeting. A decision by the dean or supervisor will be made within fifteen (15) days of the meeting. The decision by the dean or supervisor will be final and cannot be appealed further.

Confidentiality of Records

Clark College has adopted procedures in compliance with the Family Educational Rights and Privacy Act (FERPA) as amended, and maintains confidentiality of student records. College employees are trained to comply with information release guidelines.

With few exceptions, parties outside of school officials will not have access to student records without the written consent of the student. Clark College will not release a student's record to a parent/guardian without the student's written request. This policy is in effect regardless of the student's age or financial dependency upon the parent or guardian. The college may release student directory information without student consent. Directory information includes student name, student address, student e-mail, date of birth, major field of study, quarters of attendance, degrees and awards received, participation in activities and sports, and weight and height of members of athletic teams. Additional information regarding FERPA is found in section G of this catalog. In compliance with state law (SB5509) Clark College no longer uses the student's Social Security Number for the purpose of student identification. This law is intended to add additional protection to the student's identity.

The college will assign all students a Student Identification Number (SID). Students are required to use their assigned SID to access their records, register for classes, pay tuition, etc. For a copy of SB5509 or for additional information regarding this process, you may contact the Registration or Admissions Office.

Transcripts

Fax Request Line: 360-992-2876 A transcript of each student's educational record is maintained in the Registration Office. An official transcript is

signed by the Registrar, has the college seal attached and is provided in a sealed envelope. To obtain an official transcript, students should submit a signed Transcript Request form or mail a letter requesting the transcript to the Registration Office. Call 360-992-2287 for information about requesting an official transcript. Transcripts will be mailed to any college, university or other agency upon receipt of the student's written request. Transcripts will not be faxed.

Students may obtain an unofficial transcript through the Clark College website, www.clark.edu, at student information kiosks, or by submitting a written request to the Registration Office.

Transcript requests are processed within seven (7) business days after receiving a written authorization from the student.

Vice President's List

A Vice President's List will be compiled at the end of each academic quarter to recognize outstanding student achievement at Clark College. In order to qualify for the list a student must earn at least twelve (12) credits of graded course work and a GPA of 3.75 or higher. The credits from courses in which a student receives an "I," "S," or "Y" will not count toward the twelve (12) credit minimum. Students who qualify for the list will receive a congratulatory letter from the Vice President of Instruction and a notation will be made on the student's transcript.

Academic Standards Policy

Clark College is committed to the academic success of its students. The primary purpose of the Academic Standards Policy is to quickly identify and alert students with low academic achievement and provide those students with assistance to improve their academic performance.

This policy applies to all students. Some individual college programs/funding sources may have additional requirements. Students in these programs should contact the appropriate program advisor for information regarding these requirements or check with an academic advisor if they have questions.

Students must earn a cumulative GPA of 2.0 or better to remain in good academic standing. The following consequences will be imposed progressively for students who are not in good academic standing.

- Academic Concern if cumulative GPA falls below 2.0 AND quarterly GPA is less than 2.0.
- Academic Intervention if cumulative GPA remains below 2.0 for the second consecutive quarter*
 AND quarterly GPA is less than 2.0.
- One (1) Quarter Academic Dismissal if cumulative GPA remains below 2.0 for the third consecutive quarter* AND quarterly GPA is less than 2.0.
- Four (4) Quarter Academic Dismissal if cumulative GPA remains below 2.0 for the fourth consecutive quarter* AND quarterly GPA is less than 2.0.

*Consecutive quarter is defined to mean the next quarter in which a student is enrolled even if a break in time occurs.

Note: Students will remain at currently assigned academic standard level if cumulative GPA remains below 2.0 but quarterly GPA reaches 2.0 or better.

Academic Standards Procedure

Academic Concern

If your cumulative GPA falls below 2.0 AND you did not achieve a quarterly GPA of 2.0 or better, you will be placed on Academic Concern.

- You will be sent an e-mail to your Clark student e-mail address that offers information about the Academic Standards process and tells you what happens at each stage.
- You will also receive a listing of college resources and a recommendation to take advantage of support and services available to you.

Academic Intervention

If your cumulative GPA remains below 2.0 for the second consecutive quarter AND you did not achieve a quarterly GPA of 2.0 or better, you will be placed on Academic Intervention.

- You will be required to attend either a group workshop or register for a specific Human Development class.
- You will be required to complete an academic success plan that outlines steps for improving your academic performance.
- You may lose the ability to carry a full course load.

One (1) Quarter Academic Dismissal

If your cumulative GPA remains below 2.0 for the third consecutive quarter AND you did not achieve a quarterly GPA of 2.0 or better, you will be placed on One (1) Quarter Academic Dismissal.

- You will be blocked from registering for classes while on One (1) Quarter Academic Dismissal.
- You will be sent an e-mail to your Clark student e-mail address that outlines the Appeal Process for
 One (1) quarter Academic Dismissal. To have a successful appeal, you must submit all documents
 requested including documentation of circumstances over which you did not have control. Decisions
 will be made and communicated to you before the first day of classes.
- If you do not appeal or if your appeal is denied, you will be administratively withdrawn and tuition will be refunded.
- You will also receive information about how to Return from One (1) Quarter Academic Dismissal. You must complete a Request to Return to College Form no later than six (6) weeks before the first day of classes for the quarter in which you plan to return. You will be notified about the process, expectations and time deadline to make an appointment to see a designated staff member. You must prepare a written plan in advance that includes the following items for your discussion with the staff member.
 - o Your short-term educational goals
 - o Specific plans to overcome barriers and improve your academic progress
 - o Proposed course schedule

The designated staff member will review the plan with you and outline specific conditions you must meet for return from One (1) Quarter Academic Dismissal. Once the plan is finalized, you will return to Academic Intervention status.

Four (4) Quarter Academic Dismissal

If your cumulative GPA remains below 2.0 for the fourth consecutive quarter AND you did not achieve a quarterly GPA of 2.0 or better, you will be placed on Four (4) Quarter Academic Dismissal.

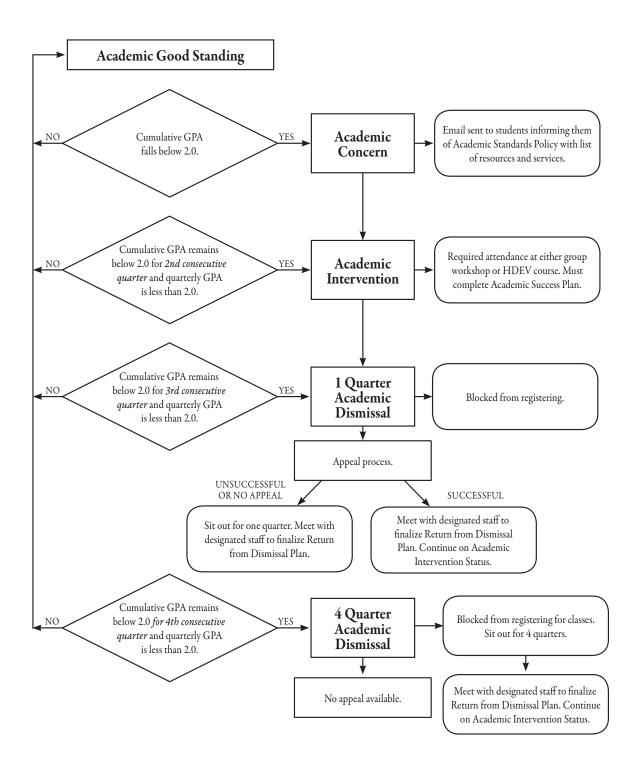
- You will be blocked from registering for classes while on Four (4) Quarter Academic Dismissal.
- If you enrolled for classes before academic dismissal status, you will be administratively withdrawn and tuition will be refunded.
- There is no appeal process.
- You will receive information about how to Return from Four (4) Quarter Academic Dismissal. You must complete a Request to Return to College Form no later than six (6) weeks before the first day of classes for the quarter in which you plan to return. You will be notified about the process, expectations and time deadline to make an appointment to see a designated staff member. You must prepare a written plan in advance that includes the following items for your discussion with the staff member.
 - o Your short-term educational goals
 - o Specific plans to overcome barriers and improve your academic progress
 - o Proposed course schedule

The designated staff member will review the plan with you and outline specific conditions you must meet for return from Four (4) Quarter Academic Dismissal. Once the plan is finalized, you will return to Academic Intervention status.

Academic Standards Professional/Technical Programs

Students in certain professional/technical programs must receive grades of "C" or better in program core courses to advance in the program class sequences. Students should refer to the department description in section C of the catalog for further information.

Academic Standards Procedure Chart



College Life

Archer Gallery

360-992-2246

Archer Gallery has been exhibiting fine art in Southwest Washington since 1978, consistently presenting an impressive list of artists and exhibits. Focusing on Northwest and Washington artists, the gallery also exhibits works by national artists. Featuring both established and emerging talents, the cultural, social, and ethnic diversity of the region is expressed in the exhibition schedule.

Archer Gallery is located on the lower level at the south entrance of the Penguin Union Building and features 2,000 square feet of exhibition space. All exhibits are free and open to students and the community. Support for the Archer Gallery is provided by the Associated Students of Clark College (ASCC), the Clark College Foundation, the college and donations from individuals. Archer Gallery is wheelchair accessible.

Athletics

Clark College Penguins

360-992-2691

Clark College is a member of the Northwest Athletic Association of Community Colleges (NWAACC), which coordinates and regulates both men's and women's athletics in Washington and Oregon. Clark sponsors intercollegiate teams for women in volleyball, cross country, basketball, track and field, softball, and soccer; and for men in soccer, cross country, basketball, baseball, and track and field. Students interested in intercollegiate sports should contact the Athletics Department.

Penguin Athletic Club

360-992-2301

Through individual, family, and corporate memberships, the Clark College Penguin Athletic Club (PAC) provides funding for athletic scholarships, special events and recognition for student athletes, coaching enhancements, and general support for all eleven (11) Clark teams competing for the Penguins. Membership in the PAC provides special discounts on both alumni and PAC events, free admission to all home regular season games, and the opportunity to utilize the Clark College Thompson Fitness Center for a nominal fee per quarter or per year. For more information, please contact the PAC office.

Bulletin Boards 360-992-2336

The majority of college bulletin boards are used for college or departmental information only. There are boards located in Gaiser Hall, Hanna Hall, Joan Stout Hall and Anna Pechanec Hall that are for general information. Student-to-student announcements and other material must be dated and posted for a period not to exceed two (2) weeks.

Signs or posters may not be placed on wood, glass, painted, plastered or metal surfaces. Only thumbtacks may be used on bulletin boards. Staples are not permitted. Materials placed improperly will be removed by college personnel. Complete bulletin board guidelines and a listing of campus boards and their classifications may be obtained from the Facilities Services Office.

Event Scheduling

360-992-2713

The hub of campus life is the Student Center in Gaiser Hall. This facility provides space for dances, concerts, dinner theater, lectures, food service, and other college/community events. College rooms are available for small and large meetings of students, staff, and community groups. A use agreement will be sent to those contracting for college facilities outlining responsibilities and privileges. Space utilization cannot conflict with regularly scheduled classes or activities, and space is assigned on a first-come, first-served basis. There is a charge for use of college facilities by off-campus groups. To arrange for the use of any college space, contact the Event Scheduling Office.

Student Life and Multicultural Student Affairs

360-992-2441

The Office of Student Life and Multicultural Student Affairs (SLMSA) coordinates programs, support services and activities that enhance the educational experience of a diverse student population and foster the intellectual and personal development of students on campus.

Student Life services include student activities, student clubs, student-funded programs and student government. The Office of Student Life and the Associated Students of Clark College (ASCC) plan and present more than 50 events each year. Some activities include: Welcome Week, O.S.W.A.L.D. Awards (Outstanding Students With Academic Leadership and Development), Earth Week, and Spring Thing.

Services available through Multicultural Student Affairs include information and referral to campus resources, support services, counseling and advising; programs and services; outreach and education within community organizations; and student activities and cultural awareness programs designed to promote cultural understanding.

In addition to these services, SLMSA oversees the ASCC offices, open-use student computers, the club room, the game room and a student-use lunchroom featuring a refrigerator, a microwave, and free coffee Monday through Thursday mornings. For more information on any of these services, contact the Office of Student Life and Multicultural Student Affairs, located in the Penguin Union Building room 160.

Peer Mentors

Peer Mentors are current Clark students who help students navigate the college system and who connect them with campus resources.

Student Clubs and Programs

Student clubs and programs provide students with an opportunity to combine various aspects of academic, vocational and/or personal learning and allow students to apply the skills and responsibilities of leadership by becoming involved in the campus and community. With more than 45 student clubs being chartered each year, student organizations may have an instructional, national, cultural, political, activity and/or religious focus.

Among the most active student organizations at Clark College are the Swing Club, Engineering Club, Photography Club, German Klub and Clark Manga and Anime Club, to name a few. With more than 30 student-funded co-curricular programs on campus, almost all students can find a program to develop personally and educationally as well as earn college credit for participation. Student programs include Athletics, The Independent, Model United Nations, Phoenix, Phi Theta Kappa Honor Society, Theatre, Health Services, Intramurals, Orchestra, Vocal Music, and many more.

Student Government

Recognized by the Board of Trustees as the representative body of Clark College students, the Associated Students of Clark College (ASCC) consists of a seven-member Executive Council and a four-member Activities Programming Board (APB). APB conceptualizes, plans and coordinates events offering social, cultural, educational and entertainment opportunities for students. As a whole, student government keeps students informed about administrative or legislative policies that directly affect the student body.

All enrolled students are members of ASCC and are thus eligible to participate in events, serve as student government officers, or participate in campus governance through representation on Clark College committees. Student government leaders gain valuable leadership experience through leadership training, decision making, fiscal organization and conflict management.

Student Publications

The Independent

Working at *The Independent* offers students hands-on journalism experience. Working with one or more aspects of the newspaper (writing, editing, photography, layout, advertising, and business management) provides an introduction to the journalism profession as well as a means of earning credit. Some staff positions are paid. *The Independent* serves as a major communication link between students, student government, the faculty, staff and administration.

Phoenix

Phoenix, Clark College's literary and arts magazine, is funded by ASCC to encourage the creative efforts of Clark College students. All Clark College students registered in the immediate spring, summer, fall or winter quarters prior to publication may submit fiction, poetry, flat artwork and photographs of three-dimensional work. Under the direction of the faculty advisors from English and from Art, staff members practice budgeting, marketing, writing, editing, judging and layout skills. Volunteer student staff members are welcome; some paid student staff positions exist.

Student Services

Bookstore fax: 360-992-2862 www.clarkbookstore.com

The Clark College Bookstore, owned and operated by the college, is located in Gaiser Hall and stocks required textbooks and supplies as requested by classroom instructors. The staff vigorously supports student interests by maintaining the lowest possible price for textbooks of any college in this region; by diligently stocking as many used textbooks as possible; and by providing e-book and rental options whenever feasible. The store also sponsors a book buyback each quarter during finals week, allowing students to recover cash for textbooks that may be utilized in future quarter(s).

The Bookstore strives to support the interests of the entire community by selling computer accessories, software (special student pricing on many items), logo items, apparel, gifts, cards, convenience food items, various reading (both for class and for relaxation) and reference materials including many test preparation items, and an extensive health reference and supply section. Reloadable Bookstore gift cards are available for purchase for student shopping convenience. Services provided include personal faxing, personal package shipment, notary public, special orders, sale of Clark College theatre tickets, USPS stamps, C-Tran bus passes, payment for parking and student ID tags, an e-commerce site to place Web orders and holds, supply support for college departments, and computer access for college community use.

Payment options at the store include Bookstore gift cards, cash, check with appropriate identification, and Visa, MasterCard or Discover charge cards. Refunds are granted with the required documentation and within a specified time frame. Returns require a receipt and the length of time allowed for a return is determined by the type of item being returned (specifics available in the Bookstore).

Child and Family Services

360-992-2179 Toddler and School-Age 360-992-2393 Preschool

360-992-2149

e-mail: bookstore@clark.edu

The Child and Family Studies program is located at the north end of the Clark College main campus. Child care and early education services with family support options are available to Clark College students, faculty, staff and the local community. Child care services are available for children twelve (12) months and walking through ten (10) years of age. Contact the program for more information or to arrange a tour. Services are available from 7:30 a.m. through 7:00 p.m. Monday – Thursday, 7:30 a.m. to 5:30 p.m. on Fridays. Evening hours vary due to sufficient enrollment between 7:00 to 9:00 p.m. Quarterly waiting lists are maintained to determine the evening schedule.

Computer Services

Computer Labs

Students enrolled in credit classes may use the open computer lab facilities at Clark College. Students are required to use their college-supplied network account to access computer resources in the labs.

Open computer labs are available at the following locations:

- Anna Pechanec Hall, Rm. 102
- Cannell Library, Rm. 203
- Scarpelli Hall, Rm. 135 and Rm. 023
- Clark College at WSUV, Rm. 202
- Clark College at Columbia Tech Center, Rm. 203 and Rm. 219

Wireless Network Access

Students may use personal computers to access the Internet and online services available through the Clark College website using the college wireless network. Wireless access is available in most college facilities. A network account is required to use the wireless network.

Computer Proficiency: A Statement to Students

Students at Clark College, in order to succeed here and in the communities outside the college, need to be familiar with and capable of using computers and computer software. Both upper division college work and the requirements of the workplace demand such skills. Many Clark College faculty will require students to access class materials on the Internet, use a word processor, e-mail and databases as part of regular course activities.

Students need to determine which computer skills are appropriate to their areas of study and take positive steps to acquire and use them early. In order to facilitate appropriate student access to computers and computer software, the college provides classrooms, labs, course work and library access where students can learn about and use these tools.

Students should contact their instructors, the college library, the Office of Student Affairs, the Associated Students of Clark College (ASCC), or the Advising and Counseling offices to find out what computer resources are available and when they can be accessed. Advisors, counselors, and faculty can assist students in choosing appropriate courses to help them achieve computer proficiency.

Dental Hygiene Clinic

360-992-2158

High-quality dental care is provided at a reduced fee by students under the direct supervision of licensed dental hygienists and dentists. Adults or children, five (5) years of age or older, are selected for care based on the educational needs of the students. Services provided may include exams, x-rays, scaling and polishing, sealants, fillings, tooth whitening, diet analysis, and personalized preventive education. Free screenings are available by appointment.

Disability Support Services

360-992-2314—Voice 360-991-0901—Video Phone

www.clark.edu/DSS

Clark College and Disability Support Services (DSS) staff assist those with disabilities in pursuing their educational goals. DSS staff is committed to ensuring that Clark College, its services, programs, and activities are accessible to individuals with disabilities. The institution takes seriously its responsibility to follow both the spirit and the letter of all pertinent federal and state mandates.

Clark College recognizes that traditional methods, programs, and services may need to be altered to assure full accessibility to qualified persons with disabilities. DSS is the primary focus of efforts by Clark College to assure nondiscrimination on the basis of disability. Through DSS, qualified persons with disabilities can address their concerns regarding attitudinal or procedural barriers encountered, as well as any need for academic adjustments and/or

auxiliary aids to ensure equal access. DSS will provide information and auxiliary aids or services, as well as serve as a resource to the campus community in striving to make Clark College both an accessible and hospitable place for persons with disabilities to enjoy full and equal participation.

Displaced Homemaker Program

360-992-2321

Individuals who have spent at least ten (10) years as homemakers and now need to support themselves and/or their families receive job readiness classes that offer sixty (60) hours of training over four weeks and address:

- Discovering hidden job skills.
- Dealing with stress, anger and health issues.
- How to stretch your current income.
- Legal assistance.
- Learning about the jobs that are available in the area.
- How to fill out job applications and write resumes.
- Personal and group counseling; support groups; educational advising

Fitness Center 360-992-2808

The Thompson Fitness Center, located in the O'Connell Sports Complex (OSC), is free to students currently enrolled in an HPE, fitness trainer or PE class. The following individuals are eligible to use the fitness center during open times for a for a quarterly or annual usage fee, which is payable at the Cashier's Office:

- Current full- and part-time Clark students;
- Clark employees, their spouses and children sixteen (16) years old and older;
- Penguin Athletic Club members, sixteen (16) years old and older; and
- Alumni Association members, sixteen (16) years old and older.

Completion of fitness center basics, circuit fitness and/or weight training class is recommended prior to using the fitness center.

Food Service

The Clark College Culinary Arts Department offers a variety of food services to the campus and community including a bakery, dining room, and food court in Gaiser Hall adjacent to the Student Center. All food is prepared by cooking and baking students who are training for jobs in the food service industry. These services are available during the normal academic quarter, except during final exam week. Snacks, light meals and beverages are also available from vendors in Bauer Hall, Joan Stout Hall and the Foster/Hanna lobby during the academic year. The Bookstore maintains a wide variety of convenience food and beverage items. Vending machines and microwaves can also be found in many locations.

Health Insurance

A low-cost private health insurance plan is available to all students taking six (6) credits or more at a community college in the state of Washington. This plan provides coverage for twenty-four (24) hours a day and for most risks unless specifically excluded. Students may enroll for accident or accident/illness coverage. There is also an option to enroll dependents. The insurance is purchased by mail directly from the company. A brochure with information, costs and an application can be obtained at the Health Services Center, located in the Health Science building, as well as in many offices located in Gaiser Hall.

International students (those students who hold F-1 or M-1 visas) are required to carry health and accident insurance. A quarterly insurance fee to cover premiums for the college-endorsed policy will be automatically included with international students' tuition payments.

Health Services 360-992-2264

Health Services, located in the Health Sciences building, provides many free or low-cost services to students, faculty and staff. Emphasis in care is placed on prevention, self-care, and early intervention for the highest possible level of wellness. Student resources within Health Services include a self-care area, telephone, and relaxation room. Other services include:

Health Education

The staff of Health Services works to assist the student in learning about their health and taking responsibility for lifestyle choices. This is accomplished through a self-care resource room, individual education, and college educational programs. Student participation in these programs is greatly encouraged.

Health Examinations

Some programs at Clark College have specific health screening requirements. Physical examinations and other required health screenings are available for a small charge for students enrolled in these programs. Health screenings are required by departments including but not limited to athletics, early childhood education, and health occupations programs. Information on specific requirements for a program should be obtained through the department.

Counseling/Mental Health Care

Short-term counseling is available to students who may be experiencing difficulties due to life stresses and changes that may occur during a college experience. Health Services is staffed with counselors and consulting psychiatric/mental health nurse practitioners to meet these needs. Individual counseling is available, and students requiring ongoing counseling may be referred to an appropriate campus or community support group or agency. Call 360-992-2641 or visit the Clark College Counseling web page at www.clark.edu/student_services/counseling/ for more information.

Primary Care

Health Services is staffed by nurse practitioners, specializing in outpatient adult health care. Health care provided within Health Services includes on-campus emergency care, primary care, and preventative health care, including limited-cost vaccinations, physical exams and laboratory services. Referrals to community health providers may be facilitated to better serve the student's needs.

Housing

Campus housing is not available. While the college does provide a housing referral bulletin board, located in central Gaiser Hall, it does not assume the responsibility for screening rentals.

Note: International Programs does work with international applicants to secure housing for them and to place them in one of the following options:

- An apartment building shared with domestic and international students from the International Air Academy (two- or four-bed apartments);
- An apartment with single or double rooms close to campus; or
- A host family arrangement.

Please contact International Programs for details.

Legal Consultation

360-992-2264

Free, one-time legal consultation is available to students on an appointment basis. Attorneys, who are Clark alumni, visit the college periodically for a one-time, 20-minute consultation. Appointments may be made through Health Services, located in the Health Science building on the main campus.

Library

www.clark.edu/library

360-992-2151

Clark College Libraries provide resources to support the educational mission of Clark College. Located on the main campus Cannell Library provides students, faculty and staff with books, movies, and CDs. Cannell Library also has group study rooms and computer labs. Students attending classes at Columbia Tech Center can visit the Information Commons located on the second floor of the building in Room 219. Students are encouraged to ask librarians at either location for assistance using the wide range of in-print and online resources. Library faculty offer a variety of instruction sessions and workshops.

Through Summit, a shared catalog that combines the holdings of academic libraries in Washington and Oregon students also have access to books, DVDs, videotapes, government documents and more. Direct online borrowing and an efficient courier service allows students to obtain books quickly and easily.

From the Libraries' website (www.clark.edu/library), Clark College students, faculty and staff have online access 24/7 to thousands of resources, including electronic books, full-text journals and 64 electronic databases. Consult the library website or call 360-992-2151 for hours of service and other library information.

Parking and Traffic Rules

360-992-2133

Traffic and parking regulations at the college are authorized by the Board of Trustees and codified under the Washington Administrative Code. The enforcement of parking and traffic regulations is the responsibility of the Security/ Safety Department.

Student parking on the Clark College campus is limited to open parking spaces. Open parking spaces are identified as lined spaces without any special labels. No permit is required to park in open parking. The Security/Safety Director is authorized to designate various parking areas on the campus by the posting of signs or pavement markings. Restricted parking areas include faculty/staff (F/S) parking, visitor parking, and disabled person parking. No one may park in these areas without the proper permit or other authorization.

Drivers of vehicles on campus shall obey all regulatory signs, including stop signs and directional arrows, and shall comply with directions of campus security officers in the control of traffic and parking.

Any violations of the parking and traffic rules and regulations of the college may result in issuance of a monetary citation by the Security/Safety Department. Vehicle impounding, immobilization or transcript hold may result if vehicles are parked improperly or if fines are not paid.

The Security/Safety Department works continually toward safe and effective parking lot use. Concerns, suggestions and ideas for meeting the challenges of managing campus parking are always welcome. Students should contact the Security/Safety Department in Gaiser Hall for a complete copy of the Clark College Parking and Traffic Rules and Regulations, or for a copy of the Parking Survival Guide.

Public Transportation

Clark College is served by C-Tran, the Clark County Community Transit System, at the main campus, Clark College at WSU Vancouver, and Town Plaza. The Clark College main campus is currently served by three (3) bus lines which link the college to all parts of the city of Vancouver, Clark County, and to Portland, Oregon.

To encourage and enable transit ridership, the college funds and supports the BackPASS program. Through the BackPASS program, all registered Clark College students can purchase a BackPASS endorsement for their student body identification cards. The BackPASS will afford the student unlimited access to C-Tran service in Clark County. Students may receive only one subsidized BackPass per quarter. To facilitate use of the BackPASS, bus schedules, maps and other transit information can be found in several locations. C-Tran regularly participates in new student orientations and hosts information booths on the main campus.

Van service is now available at a reduced rate to students with disabilities. Check with C-Tran for more details by calling 360-695-8918 (voice) or 360-695-2760 TTY.

Additional information about the BackPass program can be obtained from the Security/Safety Department in Gaiser Hall.

Security/Safety Department

360-992-2133

Clark College Security/Safety works to provide a safe and secure environment in which members of the college community can pursue their educational goals and professional commitments. The department staff protects life and property, provides service and assistance to students, staff, and community members, provides fair and easy access to college facilities and assures compliance with campus regulations. The Security/Safety Department strives to offer proactive protection services to the college community. The department responds to the changing needs of the college by stressing prevention above response, planning above reaction, education above enforcement, and service above all.

The Security/Safety Department staffs a walk-up and phone-in service and information center, open extended hours during quarter sessions and for limited hours during breaks. Any time during open campus hours, security assistance may be contacted by coming to the Security-Information desk in Gaiser Hall, or by pressing the campus security number button.

The Security/Safety Department can provide informational and directional assistance, aid to stranded motorists, including jumpstarts and lockout service, security escorts across campus, crime prevention advice, and other general assistance to students and other members of the college community. The Security-Information Department also issues student body identification cards, and provides all information required by the Clery Act.

The Security/Safety Department works cooperatively with the Vancouver Police Department, the Clark County Sheriff's Office, and the Washington State Patrol in emergency, dangerous, or volatile situations and in criminal investigations.

Student Ambassadors and the Campus Visit Program

360-992-2078

Student Ambassadors are current Clark College students who are here to assist you with the admissions and orientation process of starting at Clark. Student Ambassadors are also available to take you on a campus tour so you can begin to become familiar with campus. Taking a campus tour with a current student is a great way to hear the student perspective of being at Clark.

Student Discounts

A list of merchants that offer discounts can be found at the Security/Information Office in Gaiser Hall.

Student ID Cards

A student photo identification card is available to students for a minimal fee. The ID card provides free or discounted admission to events and may offer discounts at local businesses.

Tutoring and Writing Center

360-992-2253

The Tutoring and Writing Center, located in Hawkins Hall room 102 and AA4 room 106, offers tutoring services free of charge to all registered Clark College students. Tutors recommended by faculty provide help in many subject areas. Students are encouraged to visit the Tutoring Center early in the quarter to request help and check posted tutor schedules. Tutoring is also available at Columbia Tech Center room 336 and online at www.eTutoring.org.

The Writing Center, housed within our Tutoring Centers, is open to the entire campus community to provide free one-on-one tutoring with all types of writing, from course assignments to resumes. Tutors suggest strategies and teach principles to help students evaluate and revise their own writing and become more effective writers. Both appointments and drop-in hours are available. The center has a library of handouts on the writing process, grammar, mechanics, and documentation styles.

Veterans Affairs 360-992-2112

The academic programs of study at Clark College are approved by the Washington State's Higher Education Coordinating Board's State Approving Agency (HECB/ SAA) for enrollment of persons eligible to receive educational benefits under Title 38 and Title 10, US Code.

Students can visit the Veterans Affairs Office, located in Gaiser Hall, and receive assistance with admissions and program information, benefit applications and procedures, tutorial assistance, financial aid, and individual counseling.

Special Instructional Programs and Locations

Clark College at Town Plaza

360-992-2741

Town Plaza—5411 E. Mill Plain Blvd.

Adult Basic Education

360-992-2741

Adult Basic Education (ABE) classes are available for persons sixteen (16) years or older (16- to 18-year-olds must have a high school release). ABE offers classes in reading, writing, and math. There is a quarterly tuition charge. Classes are held at Town Plaza and other sites in the community.

Student Learning Center

360-992-2750

The Student Learning Center at TPC (room 107) supports Basic Education and ESL students with a library, computer-based learning, tutoring and mentoring programs and educational workshops. One-on-one and small-group tutoring are available for adults learning English as a second language as well as for native English speakers who want to improve basic reading, writing and math skills. Available only for students with limited English or literacy skills. Hours: 9:00A – 7:00P—MT, 9:00A – 6:00P—WTh, 9:00A – 1:00P—F.

Citizenship 360-992-2741

Citizenship classes explore the basic ideas of American government, politics, and culture. Citizenship classes are offered to adults preparing for the U. S. citizenship exam.

English as a Second Language

360-992-2741

360-992-2747

Classes are for non-native speakers who want to communicate more effectively in English. Classes are held at various times during the day and evening. There is a quarterly tuition charge to students. Most classes are held at Town Plaza or on campus, but some are held at community sites.

GED Preparation 360-992-2741

GED preparation classes help prepare students to take all five (5) GED tests. Classes are available morning, afternoon and evening. (Evening classes are also available at other community sites.) Instruction includes timed practice testing. There is a quarterly tuition charge.

Advising 360-992-2770

College advisors are available at Clark College Town Plaza. Drop in or call for an appointment.

Pathways Center

The Pathways Center at TPC is available to help with career and educational planning, including such steps as information-gathering, decision-making, planning, getting started or taking your next step. Pathway Coaches pres-

ent information sessions and workshops as well as meet with individuals. Computers are available for educational use to increase basic computer skills, basic academic skills and to gather career and educational information.

Department of Corporate and Continuing Education

360-992-2939

The Department of Corporate and Continuing Education is the region's premier provider of classes, seminars, certificate programs and training opportunities, serving both the business community and the residents of Southwest Washington. The department is dedicated to lifelong learning, personal enrichment and professional development for individuals moving up the corporate ladder or simply interested in acquiring a new skill.

The Department of Corporate and Continuing Education is comprised of the following program areas:

Continuing Education

360-992-2939

Continuing Education courses offer an array of personal enrichment and self-improvement courses designed to enhance your life and offer an opportunity to explore new interests. Taught by talented instructors, our courses make the most of the wide resources offered by Clark College. Continuing Education has something for everyone, with classes that cover such topics as computers, finance, world language and culture, dance, fitness and gardening. Many classes are appropriate for the whole family, and new classes are offered quarterly.

Cooking and Wine School

360-992-2163

The Cooking and Wine School, located at Clark College at Columbia Tech Center, offers fun and educational classes designed for the home cook, with a variety of demonstration and hands-on opportunities. In the well-appointed kitchen classroom, credentialed instructors educate about nutrition and world culture while building students' skills. Classes contain a "green" emphasis to reflect the commitment to environmental sustainability found throughout the LEED-certified building. Additionally, skill-building courses for the burgeoning local wine and hospitality industry are offered. The space is also available for private rentals.

Customized Training

877-473-1600

Customized Training is the college's primary means of providing high-quality, effective learning solutions to both public and private sectors in the business community. By using a large pool of talented Clark College faculty, adjunct instructors and pre-qualified service providers, the department offers flexible, competitively priced training and consultation services to any type of business, association or institution.

Customized Training staff work one-on-one with clients to identify specific needs and tailor programs accordingly. Most classes take place on-site at the workplace, which increases convenience and cost-effectiveness. If space or equipment is an issue, the department can provide classrooms and training venues to suit the client's particular needs. Customized Training also coordinates industry-wide workshops, seminars, certificate programs and grantfunded training.

Mature Learning 360-992-2213

Mature Learning is an educational and cultural enrichment program for persons fifty-five (55) years of age and older. The program provides an opportunity to learn in a relaxed atmosphere with no tests, grades or homework. A wide variety of courses are offered including fitness, art, writing, computers, sciences, history, creative writing, health, humanities and others. Most classes meet two hours a week, either on the main Clark campus, at Town Plaza or at other locations in the community. Students also travel by coach to Portland/Vancouver opera, theater, symphonies, art galleries, ballet and lectures.

Professional Development

877-473-1600

The department offers business-focused classes, workshops and seminars that are specially designed to help individuals succeed in today's rapidly changing world. A wide range of topics and disciplines are offered, from computers to

information technology to customer service and leadership development. These classes are open to everyone and range from efficient one-time learning sessions to seminars and certificate programs. Courses and workshops help businesses and business professionals increase their knowledge, productivity, job satisfaction and career success.

Workforce Education

360-992-2483

Workforce Education provides a variety of training and education services that assist individuals pursuing a career pathway starting from Basic Education through certificate- and degree-completion. Integrated learning for Basic Skills students (IBEST) are available to help students gain basic skills while also learning the specific skills necessary for a professional career. Customized training opportunities sponsored under WorkFirst programming are available for individuals who are currently receiving Temporary Assistance for Needy Families (TANF) from the Washington State Department of Social and Health Services. Career and technical education, as well as customized training, is available in several career-focused areas, and new program options, based on strong employability factors, are introduced each year. Partnerships with the public and private sectors such as the Southwest Washington Workforce Development Council, WorkSource Center-Vancouver, and advisory committees composed of representatives from local businesses, provide updated information that allow the college to offer training that is in demand and has wage and career growth potential. The Apprenticeship program provides tuition waivers for trainees participating in state-approved apprenticeship agreements.

SECTION B: Degree & Certificate Requirements

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General Information

Degrees & Certificates

Clark College awards five (5) degrees: the Associate in Arts degree, for completion of a program of study for transfer to a senior institution; the Associate in Science degree, for completion of a program of study in the sciences in preparation for transfer to a senior institution; the Associate in Fine Arts degree, for completion of a program in fine arts in preparation for transfer to a senior institution; the Associate in Applied Science degree for completion of a program of study in an occupational program; and the Associate in Applied Technology degree, for completion of a program of study in an occupational program. Each degree requires a minimum of ninety (90) credits and a minimum Grade Point Average (GPA) of 2.00. Certificates of Proficiency are awarded upon completion of a minimum of forty-five (45) credits of specialized occupational training, including general education requirements and require a minimum GPA of 2.00. Certificates of Achievement are granted upon completion of a program of specialized occupational training of less than forty-five (45) credits and require a minimum GPA of 2.00. Individual departments offer certificates of completion with varying credit requirements.

A student may earn more than one career-technical degree and /or certificate at Clark College, and a student may earn a combination of academic and career-technical degrees and/or certificates. However, a student cannot earn more than one Direct Transfer Agreement degree from Clark College (for instance, a student cannot earn a degree in both the Business Administration – WSUV and an Associate in Arts – Transfer).

Academic Residency Requirements

In an effort to accommodate our mobile student population, Clark College has adopted a residency policy that recognizes the value of coursework completed from other institutions of higher learning.

To obtain a degree or certificate from Clark College, students are required to earn a minimum number of credits in residence at our institution. Clark College does allow students to transfer credits toward meeting degree or certificate program requirements. There is no restriction on the number of transfer credits allowed; however, students must meet the minimum in-residence credit at Clark College for their specific program.

Refer to the following information for specific requirements and restrictions for each type of program:

Associate Degree

Thirty (30) credits minimum must be completed at Clark College to meet Academic Residency.

Certificate of Proficiency

Fifteen (15) credits minimum must be completed at Clark College to meet Academic Residency.

Certificate of Achievement

Ten (10) credits minimum must be completed at Clark College to meet Academic Residency.

Catalog Lifespan

Students may complete their degree(s) or certificate(s) under the requirements set forth in any catalog issued during their attendance at Clark College. However, no catalog will be valid for more than seven (7) years. Any student not in attendance at Clark College for two (2) or more calendar years is required to complete the program requirements of the catalog in effect at the time of their re-entry to the college. (WAC 132N-160-080)

Credit Evaluation Requests

REQUEST PROCESS: A student who has earned fifteen (15) credits at Clark College and is currently enrolled may request an official degree/certificate evaluation by submitting the request form. Forms are available in the Credential Evaluation Office in Gaiser Hall. Official copies of transfer coursework from other institutions must be on file with the Admissions Office before this process can be completed.

Students who do not meet the criteria of fifteen (15) credits earned and current enrollment have the option of meeting with a general advisor for an unofficial evaluation of their credits. Students transferring from other institutions should take copies of their transcripts with them to assist in the evaluation process.

Students are encouraged to apply for an official evaluation when they are approximately halfway through their program. The evaluation process takes approximately four (4) to six (6) weeks to complete. Students will receive the results of their evaluation by mail.

Program Completion Application Processes & Deadlines

Application Process/Deadline Dates

Degrees and certificates are not automatically awarded. Students must submit a Program Completion Application for all degrees, Certificates of Proficiency and Achievement; Certificates of Completion do not require an application and are awarded by the individual program departments. Application must be made no later than the tenth (10th) day of the quarter of expected degree/certificate completion. Specific dates are published in the quarterly class schedules and in the Credential Evaluation Office.

Applications received after the deadline will automatically be processed for the following quarter, unless a Late Application Petition is submitted with the application and approved. All degrees and certificates are sent by mail approximately four (4) to six (6) weeks following the end of the application quarter.

Late Applications

Students who miss the posted application deadline may submit a Late Application Petition. The petition should be submitted with the Program Completion Application. The form is available in the Credential Evaluation Office in Gaiser Hall.

Graduation Ceremony

Participation in Commencement Ceremonies

The June commencement is a ceremony for those students who have completed or plan to complete their degree or certificate during fall, winter, spring of the current school year, or the summer quarter immediately following. Participation is not required. Candidates must file their Program Completion Application and cap-and-gown order by the appropriate deadline to be eligible. Ceremony participation does not guarantee degree completion.

Caps & Gowns

Only students who submit a Cap and Gown Order Form and a Program Completion Application will be allowed to participate in the commencement ceremony. The cap and gown order form is available in the Credential Evaluation Office in Gaiser Hall. The cap-and gown-deadline for submission is always the last day of the winter quarter. Students who turn in their cap-and-gown order form after the deadline will be charged a late fee. Students who have submitted their cap and gown order form will receive detailed information in mid-May regarding the process for ceremony participation and cap-and-gown disbursement.

Academic Honors

To be eligible for academic honors, students must have a minimum GPA of 3.40. Honors for the Associate in Arts degree and the Associate in Science-Transfer degree are based on the cumulative college-level GPA, while the Asso-

ciate in Applied Science, Associate of Applied Technology and Certificate of Proficiency are based on the cumulative GPA. Students in the associate degree programs will earn the designation of "with honors" for a GPA of 3.40 to 3.89, and the designation of "with highest honors" for a GPA of 3.90 or higher. Certificates of Proficiency will be granted the designation of "with merit" for a GPA of 3.40 or higher (Certificates of Achievement are not eligible for honors designations). Those students participating in June ceremonies will receive recognition at the celebration based on their appropriate GPA on record at the end of winter quarter. If honor status changes once final grades are processed, adjustments will be made to the student record.

Program Completion Checklist

Please us	e the checklist below to keep yourself on track toward your personal educational goals.		
Apply Apply	for admission and to Clark College.		
Pay t	he non-refundable application fee.		
☐ Send	official copies of transcripts from all previously attended colleges or universities.		
Take	placement test with the Assessment Center.		
☐ NEW	7 Students		
o Att	rend New Student Orientation (required).		
o Me	et with an advisor at orientation.		
o Re	gister for classes at orientation.		
TRA	NSFER OR RETURNING Students		
o Att	tend New Student Orientation (optional).		
o Me	o Meet with an advisor.		
o Re	gister for classes.		
Requ	est an official evaluation from the Credential Evaluations Office at the mid-point of chosen program.		
	it a Program Completion Application by the tenth (10th) day of the quarter you plan to complete final rements for your program of study.		
	it a Cap and Gown Order Form by end of Winter Quarter if you plan to participate in the graduation only held in June each year.		
Comp	plete all requirements for the chosen program of study.		
☐ Cong	ratulations! You're a graduate.		
Distr	ibution Coding		
	owing codes may be included in some course descriptions and indicate the applicability of the course to- general education requirements of Clark College degrees and certificates.		
C	Communication Skills		
CP	Computational Skills		
GE	General Elective		
HA	Humanities Academic (A list)		
HB	Humanities Performance (B list)		
HE	Health		
HR	Human Relations		
HPE	Health & Physical Education		

- NS Natural Sciences
- OC Oral Communications
- PE Physical Education Activity
- Q Quantitative Skills
- SE Specified Elective
- SS Social Sciences

Transfer Degrees

Associate in Arts (AA)

Associate in Arts – Major Related Program (MRP)

Associate in Fine Arts (AFA)

Associate in Science Transfer – Track 1 (AST 1)

Associate in Science Transfer – Track 2 (AST 2)

Associate in Science Transfer – Major Related Program (MRP)

Associate in Applied Science – Transfer (AAS-T) (Early Childhood Education only)

Associate in Arts (AA) Degree Intent

The Associate in Arts (AA) degree is designed for students planning to transfer to a four-year institution to pursue a bachelor's degree program. The degree, in most cases, meets the first two (2) years of general education requirements at the senior institution. There are exceptions; please check with the transfer institution for additional information. Most students transferring with the AA degree will be granted junior standing upon entry to the senior institution.

The standard Associate in Arts degree is also known as a Direct Transfer Agreement (DTA) Associate degree.

AA – DTA Degree Options:

- General Transfer
- Addiction Counselor Education
- Biology MRP
- Business Administration transfer to WSU Vancouver
- Business Administration MRP
- Dental Hygiene
- Elementary Education MRP
- Elementary Education transfer to WSU Vancouver
- Math Education MRP

- Nursing transfer to WSU Vancouver
- Pre-Nursing MRP

A student may not earn more than one (1) DTA degree at Clark College. Students are advised to carefully examine the differences in the degree requirements where there is more than one choice within a major field and be sure that their transfer intent is in line with the degree chosen. Please note that all AA – MRP listings above are Direct Transfer Agreements (DTA).

General Requirements for All Associate in Arts Degrees

- Complete a minimum of ninety (90) college-level credits.
- Maintain a minimum cumulative college-level GPA of 2.00 or higher.
- Thirty (30) credits minimum must be completed at Clark College to meet Academic Residency.
- Submit a Program Completion Application by the appropriate deadline.

General Credit Restrictions

Credit by Department: Ten (10) credits maximum from any single department can be used to fulfill Humanities, Social Sciences and Natural Sciences distribution requirements.

World Language: Five (5) credits maximum in 100-level world language can be used to fulfill Humanities distribution requirements. Additional 100-level foreign language coursework can be used to meet Specified Elective requirements.

Debate Courses: Twelve (12) credits maximum in CMST 171, 172, 173, 271, 272, and 273 can apply toward the degree.

Physical Education Activity: Six (6) credits maximum in PE activity can apply toward the degree. Eligible Health/ Physical Education courses (HPE) count as one (1) PE activity credit. PE credits can apply to the degree as follows:

- One (1) credit in PE activity
- Two (2) credits in Specified Electives
- Three (3) credits in General Electives

Non-Traditional Coursework: Fifteen (15) credits maximum in non-traditional coursework can apply toward the degree. This includes AP, IB, CLEP, Cooperative Work Experience, Credit-by-Challenge, Military Experience, Special Projects, and Tech Prep for the AA degree only.

Pass/Fail Grading Option: Thirty (30) credits maximum in courses with Pass/Fail grading option can apply toward the degree, with the exception of the AA Nursing degree which exceeds this limit because of clinical requirements.

General Restrictions

- 1. A course can apply toward only one (1) distribution requirement (i.e., Communication Skills, Quantitative Skills, Humanities, Social Sciences and Natural Sciences). The exception is for Oral Communications, which is a local degree requirement.
- 2. Excess credits earned in distribution areas (i.e., Communication Skills, Quantitative Skills, Humanities, Social Sciences and Natural Sciences) can be used to fulfill the Specified Elective requirement.
- 3. Credit by Challenge coursework will meet academic residency requirements.

Associate in Arts (AA) - General Transfer

General Education Requirements

Communication Skills [C] -10 credits minimum

To fulfill the communications requirement for the AA general transfer degree, students must:

1. Take ENGL& 101 or ENGL 135 at five (5) credits;

AND EITHER:

2a. Take another five- (5) credit English composition course (ENGL& 102 or 235, or ENGL 109 or 110).

2b. Take another three- (3) credit English composition course (ENGL 108, 109 or 110 (taken when three (3) credits) or ENGL 212/BUS 211); AND take a five- (5) credit communication studies course (CMST & 210, 220, or 230).

Quantitative Skills [Q] - 5 credits

Complete a minimum of five (5) credits of coursework 100-level or above with an intermediate algebra prerequisite from the list of courses below:

- BUS 203, 204
- CSE 120, 121, 222, 223, 224
- ENVS 135
- MATH 103, 105, 111, 120, 121, 122, 123, 124, 135, 140, 203, 204, 205, 215, 221
- MATH& 107, 148, 151, 152, 153, 254

Health & Physical Education [HE, HPE, PE] - 3 credits

Complete three (3) credits from either option one or option two:

Option One: Complete two (2) credits of Health from the list below AND one (1) credit of any college-level PE activity course:

- HLTH 100, 101, 103, 104, 206, 207, 208, 210, or 278
- PE activity

Option Two: Complete three (3) credits from one (1) of the courses listed below:

• HPE 258 or 266

Oral Communication [OC] - 5 credits

Clark students must complete a course in oral communication effective Fall 2011. Students may apply this course within the Humanities, Social Sciences, or Communication Skills distribution area or count the course as a specified elective. At Clark the options are as follows:

• CMST&210, 220, or 230 (all 5 credits)

Distribution Requirements

Complete a minimum of forty-five (45) credits from the distribution requirements.

Note: Some specific requirements of a program may also meet the General Education requirements.

Humanities [HA, HB] - 15 credits

Select courses from at least two (2) subject areas for a minimum of fifteen (15) credits. You may include no more than 10 credits from any one subject area. A maximum of five (5) credits of "B" list coursework may be applied. A maximum of five (5) credits of 100-level foreign language can be applied.

Social Sciences [SS] - 15 credits

Select courses from at least three (3) subject areas for a minimum of fifteen (15) credits. You may include no more than ten (10) credits from any one subject area.

Natural Sciences [NS] - 15 credits

Select courses from at least two (2) subject areas for a minimum of fifteen (15) credits. You may include no more than ten (10) credits from one subject area. You must include at least one lab science. MATH and CTEC courses do not fulfill this requirement, except MATH 135.

Elective Requirements

Complete a total of twenty-seven (27) credits from courses numbered 100 and above. The two areas of Electives are listed below. No more than 15 credits can be taken from the General Elective area.

Specified Electives [SE] - Courses that apply: [C, Q, HA, HB, SS, NS, SE, HE, HPE, PE, OC] - 12 credits

A maximum of two (2) credits in PE activity can apply toward this area. Courses coded as HPE count as one (1) credit of PE activity.

General Electives [GE] - 15 credits

These courses may be vocational in nature from Career and Technical education courses. The transferability of the Career-Technical courses and any ENL 100-level courses is determined by the receiving baccalaureate institution.

Note: Coursework in ESL or FLPC cannot apply to the AA degree program.

Distribution List for Associate in Arts Degree – General Transfer

Note: Some distribution requirements may be met by major area courses.

Humanities [List A=HA, List B=HB] - 15 credits

Select courses from the list below. Select from at least two (2) subject areas for a minimum of fifteen (15) credits. You may include no more than ten (10) credits from any one subject area. A maximum of five (5) credits of "B" list coursework may be applied. A maximum of five (5) credits of 100-level foreign language can be applied.

Art (ART)

List A: 118, 131, 151, 172, 220, 221, 222, 223, 225, 226, 250

List B: 103, 104, 105, 110, 115, 116, 117, 137, 138, 140, 141, 142, 145, 146, 168, 169, 170, 173, 174, 175, 177, 178, 179, 180, 181, 189, 190, 191, 203, 204, 206, 207, 208 257, 258, 259, 260, 261, 262, 270, 271, 273,274, 278, 290, 295, 296, 297

Biology (BIOL - List A only)

BIOL 180

Communication Studies (CMST/CMST&)

List A: CMST 216, 240; CMST& 102, 210,220 or 230

List B: CMST171, 172, 173, 271, 272, 273

Drama (DRMA/DRMA&)

List A: DRMA& 101

List B: DRMA 140, 141, 142, 143, 144, 145, 150, 152, 171, 172, 173, 240, 243, 244, 245, 250, 271, 272, 273

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English (ENGL)
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List A: ENGL 130, 131, 132, 133, 140, 143, 145, 150, 152, 156, 260, 261, 262, 264, 265, 266, 267, 268, 269, 270, 272

List B: ENGL 121, 122, 123, 125, 126, 275, 276, 290

Humanities (HUM/HUM& - List A only)

HUM& 101; HUM 102, 103, 112, 152, 180, ,210

Journalism (JOUR)

List A: JOUR 101

Music (MUSC/MUSC&)

List A: MUSC 100, 116, 117, 118, 125, 127, 135; MUSC& 104, 141, 142, 143, 231, 232, 233

List B: MUSC 101, 103, 106, 110, 115, 137, 138, 139, 146, 150, 151, 152, 153, 154, 155, 170, 171, 172, 173, 174, 175, 176, 177, 178, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 193, 195, 196, 197, 201, 202, 210, 237, 238, 239, 250, 251, 252, 253, 254, 255, 270, 271, 272, 273, 274, 275, 276, 277, 278, 280, 281, 282, 283, 284, 285, 287, 288, 289, 290, 295, 296, 297; MUSC& 121, 122, 123, 221, 222, 223

Philosophy (PHIL/PHIL& – List A only)

PHIL 115, 116, 117, 160, 240, 251, 280, 290; PHIL& 101, 106

Women's Studies (WS – List A only)

WS 101, 201, 210

World Language (ASL&, CHIN&, FRCH/FRCH&, GERM&, JAPN&, SPAN/SPAN&)

List A: ASL& 121, 122, 123, 221, 222, 223; CHIN& 121; FRCH& 121, 122, 123, 221, 222, 223, 290; GERM 290, GERM& 121, 122, 123, 221, 222, 223; JAPN& 121, 122, 123, 221, 222, 223; SPAN 290, SPAN& 121, 122, 123, 221, 222, 223

List B: FRCH 141, SPAN 141

Social Sciences [SS] – 15 credits

Select courses from at least three (3) subject areas for a minimum of fifteen (15) credits. You may include no more than ten (10) credits from any one subject area.

Anthropology - ANTH& 204, 206, 215

Communication Studies - CMST& 230

Criminal Justice – CJ& 101

Economics - ECON 101, 107, 110, 111, 112, 120; ECON& 201, 202

Environmental Science - ENVS 231

Geography – GEOG 101, 107

History - HIST 231, 251, 252, 253; HIST& 126, 127, 128, 146, 147, 148, 215

Humanities - HUM 210

Political Science - POLS 111, 131, 141, 151, 152, 153, 231, 251, 252, 253; POLS& 203

Psychology - PSYC 203; PSYC& 100, 200,

Sociology - SOC 121, 211, 220 SOC& 101, 201

Women's Studies - WS 101, 201, 210

Natural Sciences [NS] - 15 credits

Select courses from at least two (2) subject areas for a minimum of fifteen (15) credits. You may include no more than ten (10) credits from one subject area. You must include at least one lab science. Lab courses are denoted by the letter "L".

- 1. Agriculture AG 175L
- 2. Anthropology ANTH& 215L
- 3. Astronomy ASTR& 101L
- 4. Biology BIOL& 100L, 221L, 222L, 223L, 251L, 252L, 253L, 260L, BIOL 101,139, 140, 141, 142, 143, 145, 146, 150L, 164, 165L, 167, 168L, 180, 208L, 224L,
- 5. Chemistry CHEM& 110L, 121L, 131L, 141, 142, 143, 151L, 152L, 153L, 241, 242, 243, 251L, 252L, 253L
- 6. Environmental Science ENVS 109L, 135, 210L, 211L, 218L, 221L
- 7. Geology GEOL& 101L, 103L, GEOL 102L, 109, 218
- 8. Humanities HUM 180
- 9. Mathematics MATH 135
- 10. Meteorology METR& 101L
- 11. Nutrition NUTR 103
- 12. Physical Science PHSC 101L, 102L, 104L, 106, 110L
- 13. Physics PHYS& 100, 101L, 121L, 122L, 123L, 221L, 222L, 223L

Specified Electives

All courses numbered 100 and above (except 199 and 290) in the departments listed below may be used to meet the Specified Elective portion of the degree (some departments have chosen specifically listed courses only or have excluded specific courses).

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Accounting - ACCT& 201, 202, 203 only
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Addiction Counseling - ACED 101 only

American Sign Language

Anthropology

Art

Astronomy

Biology

Business - BUS& 101, 201, BUS 203, 204, 211 only

Chemistry

Chinese

Communication Studies – excluding 212, 280

Computer Science & Engineering

Computer Technology - CTEC 100, 120, 121, 123, 124, 125, 224 only

Drama

Early Childhood Education – 121, 137, 138 only

Education - EDUC& 201 only Engineering - excluding ENGR& 110 and 130 English **Environmental Science** Forensic Science French Geography Geology German Health - excluding HLTH 120 and 121 Health & Physical Education – HPE counts as one (1) credit of physical education History Humanities Japanese Journalism - JOUR 101 only Mathematics Meteorology Music Nutrition Paralegal 212 Philosophy Physical Education (2 credit maximum in activity courses for specified electives) Physical Science **Physics** Political Science Psychology Sociology Spanish

General Electives

Women's Studies

Economics

These courses may be vocational in nature from Career and Technical education courses. The transferability of the Career-Technical courses and any ENL 100-level courses is determined by the receiving baccalaureate institution. Clark College has a three (3) credit maximum for physical education activity.

Associate in Arts – Major Related Programs (MRP)

To help transfer students better prepare for their junior year, two-year and four-year institutions are working together to create transfer associate degrees outlining the appropriate courses in order for students to be well prepared

to enter their chosen major upon transfer. The MRP degrees follow the Direct Transfer Agreement (DTA) format of the Associate in Arts degree.

The DTA/MRP pathway is applicable to students planning to prepare for the following majors at various universities in Washington. Clark College offers the following Associate in Arts – DTA/MRP in:

- Biology
- Business
- Elementary Education
- Math Education
- Pre-Nursing

The MRP degrees listed above have slightly different graduation requirements than other Clark transfer degrees because the curriculum was created via an articulation agreement between Washington two-year and four-year schools. Most notably, AA – MRP degrees do not share Clark's requirement for HPE or Oral Communication (though some of these degrees do require a CMST class). Clark students are encouraged to take HPE or oral communication courses, where appropriate, in case their degree choice changes. General Education requirements and general credit restrictions are identical.

Associate in Arts – Option B (AAB)

The Option B degree is designed for students who are certain of the specific four-year program to which they will transfer. Students can design a program to fulfill the senior institution's general admission and program entry requirements. After completion of the program, the student will be awarded an Associate in Arts degree that fulfills the lower-division requirements for the department to which they are applying at the baccalaureate-granting institution. This degree is not a transferrable DTA.

General Education Requirements

- Complete a minimum of ninety (90) college-level credits as authorized for transfer by the four-year institution's representative and/or the student's faculty advisor.
- Maintain a minimum cumulative college-level GPA of 2.00 or higher.
- Thirty (30) credits minimum must be completed at Clark College to meet Academic Residency.
- Select courses that meet the senior institution's general distribution requirements plus any special
 proficiency requirements for entrance. The student should be prepared to provide a copy of the senior
 institution's current catalog to their Clark College advisor for assistance in program planning.
- Students must be aware that this degree program is NOT a program that adheres to the Direct Transfer Agreement. Students will be required to complete the senior institution's general undergraduate degree requirements.
- Associate in Arts Option B degree candidates must present to the Credential Evaluations Office, at least two (2) quarters prior to graduation, a copy of their Option B Plan that has been created with their advisor together with any supporting documentation.

AA – Option B Distribution Requirements

Courses should be selected in order to fulfill the senior institution's general education requirements (not Clark's) as defined in the transfer institution's catalog. Students need to meet the following requirements while fulfilling their Associate in Arts – Option B degree:

- Communication Skills: Five (5) credits
- Quantitative Skills: Five (5) credits

- Humanities: Ten (10) credits
- Social Sciences: Ten (10) credits
- Natural Sciences: Ten (10) credits, including one (1) laboratory science
- Foreign Language: Foreign language proficiency is not required for every degree program.*

Articulation Programs

Certain degree programs are offered at Clark College that have been set up in cooperation with four-year institutions. Program tracks that have been approved by Clark's Instructional Planning Team are eligible for Clark's Associate in Arts – Option B degree, even if they do not meet the core requirements. Intensive research, planning, and cooperation on the part of multiple institutions have gone into the development of these programs.

Associate in Fine Arts (AFA)

Degree Intent

This transfer preparation degree is designed for students planning to transfer to a senior institution to pursue a bachelor's degree program (BA or BFA) in fine arts. The degree programs focus on coursework specific to the intended major area of study at the senior institution. While coursework in general education, social sciences, and natural sciences is included, additional coursework in these areas will be required at the senior institution. It is important for students to meet with program-specific advisors to determine an appropriate educational plan. The AFA is NOT a direct-transfer agreement degree, so students need to be especially aware of requirements of the receiving senior institution.

Currently, Clark College only offers one (1) Associate in Fine Arts in Graphic Design. Please contact either the Art department or Computer Graphics Technology department for advising information.

General Requirements

- Complete a minimum of ninety (90) college-level credits in specified curriculum.
- Maintain a minimum cumulative college-level GPA of 2.00 or higher.
- Thirty (30) credits minimum must be completed at Clark College to meet Academic Residency.
- Submit a program completion application by the appropriate deadline.

General Credit Restrictions

Credit by Department: Ten (10) credits maximum from any single department can be used to fulfill the Humanities, Natural Sciences and Social Sciences distribution requirement.

World Language: Five (5) credits maximum in 100-level world language can be used to fulfill the Humanities distribution requirements. Additional 100-level world language coursework can be used to meet other electives or major requirements.

Debate: Twelve (12) credits maximum in CMST 171, 172, 173, 271, 272, and 273 can apply toward the degree.

Physical Education Activity: Six (6) credits maximum in PE activity can apply toward the degree. Eligible Health/ Physical Education courses (HPE) count as one (1) PE activity credit.

Non-Traditional Coursework: Fifteen (15) credits maximum in non-traditional coursework. This includes AP, IB, CLEP, Cooperative Work Experience, Credit by Challenge, Military Experience, Special Projects, and Tech Prep.

^{*} Students should consult with their senior institution's representative to confirm requirements. Clark College recommends that those students who did not fulfill foreign language proficiencies in high school take their foreign language while at Clark. Students must complete the 1st, 2nd and 3rd course sequence in a foreign language in order to fulfill foreign language requirements, where applicable. This means up to fifteen (15) credits of foreign language may need to be taken at Clark.

Pass/Fail Grading Option: Thirty (30) credits maximum in courses with Pass/Fail grading option.

General Restrictions

A course can apply toward only one (1) distribution requirement (i.e., Communication Skills, Quantitative Skills, Humanities, Social Sciences and Natural Sciences). Excess credits earned in distribution areas (i.e., Communication Skills, Quantitative Skills, Humanities, Social Sciences and Natural Sciences) can be used to fulfill the Specified Elective requirement. Credit by Challenge coursework will meet Academic Residency requirements.

General Education Requirements

Communication Skills [C] - 5 credits

• Complete ENGL& 101.

Note: Students who have completed English 101 or its equivalent at less than five (5) credits may complete the communications requirement by completing any of the courses (or their appropriate transfer equivalents) in written or oral communications as defined within the Associate of Arts distribution requirements.

Quantitative Skills [Q] - 5 credits

• Complete a college-level course in quantitative skills, computer science or technology, or symbolic logic as determined by the AFA program department.

Health & Physical Education [HE, HPE, PE] - 3 credits

Complete three (3) credits from either option one or option two:

Option One: Complete two (2) credits of Health from the list below AND one (1) credit of any college-level PE activity course:

- HLTH 100, 101, 103, 104, 206, 207, 208 210, or 278
- PE activity

Option Two: Complete three (3) credits from one (1) of the courses listed below:

• HPE 258 or 266

Humanities [HA] – 5 credits

Select five (5) credits of coursework from the Humanities AA distribution list. Courses must be List A courses. The course completed cannot be part of the AFA major requirements.

Social Sciences [SS] - 5 credits

Select five (5) credits of coursework from the Social Sciences AA distribution list. The course completed cannot be part of the AFA major requirements.

Natural Sciences [NS] - 5 credits

Select five (5) credits of coursework from the Natural Sciences AA distribution list. The course completed must include a lab, which are denoted by the letter "L." The course completed cannot be part of the AFA major requirements.

The balance of the program shall be defined by the major department and should be a minimum of 90 credits.

Associate in Science – Transfer

Degree Intent

The transfer preparation degrees are designed for students planning to transfer to a senior institution to pursue a bachelor's degree program in science and/or engineering. The degree programs focus on coursework specific to the intended major area of study at the senior institution. While coursework in general education, humanities, and Social Sciences is included, additional coursework in these areas will be required at the senior institution. It is important for students to meet with program-specific advisors to determine an appropriate educational plan.

General Requirements

- Complete a minimum of ninety (90) college-level credits in specified curriculum.
- Maintain a minimum cumulative college-level GPA of 2.00 or higher.
- Thirty (30) credits minimum must be completed at Clark College to meet Academic Residency.

General Credit Restrictions

Credit by Department: Ten (10) credits maximum from any single department can be used to fulfill the Humanities and Social Sciences distribution requirement.

World Language: Five (5) credits maximum in 100-level world language can be used to fulfill the Humanities distribution requirements.

Debate: Twelve (12) credits maximum in CMST 171, 172, 173, 271, 272, and 273 can apply toward the degree.

Physical Education Activity: Six (6) credits maximum in PE activity can apply toward the degree. Eligible Health/ Physical Education courses (HPE) count as one (1) PE activity credit.

Non-Traditional Coursework: Fifteen (15) credits maximum in non-traditional coursework. This includes AP, IB, CLEP, Cooperative Work Experience, Credit by Challenge, Military Experience, Special Projects, and Tech Prep.

Pass/Fail Grading Option: Thirty (30) credits maximum in courses with Pass/Fail grading option.

General Restrictions

A course can apply toward only one (1) distribution requirement (i.e., Communication Skills, Quantitative Skills, Humanities, Social Sciences and Natural Sciences). Credit by Challenge coursework will meet Academic Residency requirements.

Associate in Science – Track 1 (AST1)

Associate in Science – Track 1 is for students intending to transfer into programs in:

- Biological Sciences
- Chemistry
- Earth Science
- Environmental/Resource Sciences
- Geology

General Education Requirements

Communication Skills [C] – 5 credits

• Complete ENGL& 101.

Quantitative Skills - 10 credits

• Complete MATH&151 and 152, or Math courses that have MATH&152 as a prerequisite.

Note: MATH& 151 (Calculus I) requires the successful completion of both MATH 103 (trigonometry) and MATH 111 (college algebra), or recommending score on an approved placement test prior to registration. These prerequisite courses can be used to fulfill elective requirements within the Associate in Science (AS) degree program.

Health & Physical Education [HE, HPE, PE] - 3 credits

Complete three (3) credits from either Option One or Option Two:

Option One: Complete two (2) credits of Health from the list below AND one (1) credit of any college-level PE activity course:

- HLTH 100, 101, 103, 104, 206, 207, 208, 210, or 278
- PE activity

Option Two: Complete three (3) credits from one (1) of the courses listed below:

• HPE 258 or 266

Humanities & Social Sciences [HA,SS] - 15 credits

Select five (5) credits of coursework from Humanities List A, five (5) credits of coursework from Social Sciences, and an additional five (5) credits of coursework from either area for a minimum of fifteen (15) credits. Humanities List A and Social Sciences courses must be selected from the Associate of Arts Distribution List.

Pre-major Sequence - 45 to 52 credits

All students planning to earn the Associate in Science – Track 1 degree are required to complete the following course sequences. The sequences taken are dependent on the major of the student. Sequences should be started and finished at the same institution to ensure proper transfer. Students MUST consult with faculty or advising staff to pick the correct sequences.

- 1. Chemistry sequence (required of all) 16 credits
 - CHEM&141, 142, 143, 151L, 152L, 153L (16 credits)
- 2. Additional mathematics courses (required of all—be sure to consult advisor to identify correct path)—5 or 6 credits
 - MATH&153 or MATH 203 AND 204
- 3. One of the following sequence paths depending on the chosen major:
- A. Biological Science
 - BIOL&221L, 222L, and 223L
 - Students should then consult with the baccalaureate institution to see which of these sequences should be taken: CHEM&241, 242, 243, 251L, 252L, and 253L; OR PHYS&121L, 122L, and 123L.
- B. Chemistry and Geology Majors
 - PHYS&221L, 222L, and 223L.
- C. Environmental/Resource Sciences & Earth Science Majors

Complete 15 credits in one of the following three-course sequences (consult the baccalaureate institution for best information):

- BIOL&221L, 222L, and 223L, or
- PHYS&121L, 122L, and 123L, or
- PHYS&221L, 222L, and 223L
- 4. Science Electives (10 to 15 credits)

Complete an additional ten (10) to fifteen (15) credits (preferably in a two- or three-quarter sequence) in courses from the following list:

• Biology - BIOL 208L, 224L; BIOL& 221L, 222L, 223L, 251L, 252L, 253L, 260L

- Chemistry CHEM& 241L, 242L, 243L, 251L, 252L, 253L
- Computer Science Engineering CSE 101
- Engineering ENGR 101, 102, 103
- Environmental Science ENVS 210, 211, 218L, 221
- Geology GEOL102L, 218L; GEOL& 101, 103
- Math MATH 203, 204, 205, 215, 221; MATH& 153, 254
- Physics PHYS& 121L, 122L, 123L, 221L, 222L, 223L

Other Electives - 5 to 12 credits

Sufficient additional college-level credits so that total credits earned is at least 90 quarter credits. These remaining courses may include prerequisites for major courses (e.g., Math 103 and 111), additional major coursework, or specific general education or other university requirements, as approved by the advisor.

Associate in Science – Track 2 (AST2)

Associate in Science – Track 2 is for students intending to transfer into programs in:

- Atmospheric Science
- Computer Science
- Engineering
- Physics

General Education Requirements

Communication Skills [C] - 5 credits

• Complete ENGL& 101.

Quantitative Skills [Q] – 10 credits

• Complete MATH& 151 and 152, or Math courses that have MATH&152 as a prerequisite.

Note: MATH& 151 (Calculus I) requires the successful completion of both MATH 103 (trigonometry) and MATH 111 (college algebra), or recommending score on an approved placement test prior to registration. These prerequisite courses can be used to fulfill elective requirements within the Associate in Science (AS) degree program.

Health & Physical Education [HE, HPE, PE] - 3 credits

Complete three (3) credits from either Option One or Option Two:

Option One: Complete two (2) credits of Health from the list below AND one (1) credit of any college-level PE activity course:

- HLTH 100, 101, 103, 104, 206, 207, 208, or 210
- PE activity

Option Two: Complete three (3) credits from one (1) of the courses listed below:

• HPE 258 or 266

Humanities & Social Sciences [HA, SS] - 15 credits

Select five (5) credits of coursework from Humanities List A, five (5) credits of coursework from Social Sciences, and an additional five (5) credits of coursework from either area for a minimum of fifteen (15) credits. Humanities List A and Social Sciences courses must be selected from the Associate of Arts Distribution List.

Pre-major Sequence - 25 credits

All students planning to earn the Associate in Science – Track 2 degree are required to complete the following course sequences. Please note that there are different sequences for Engineering and Non-engineering majors. The sequences taken are dependent on the major of the student. Sequences should be started and finished at the same institution to ensure proper transfer. Students MUST consult with faculty or advising staff to pick the correct sequences.

Engineering Major

- 1. Calculus-based Physics sequence 15 credits
- PHYS& 221, 222, and 223
- 2. Chemistry with Lab
- CHEM&141, 151
- Additional mathematics courses (required of all—be sure to consult advisor to identify correct path)—
 or 6 credits
 - MATH&153 or MATH 203 AND 204

Non-engineering Major

- One of the Physics sequences—Consult with the baccalaureate institution to see which sequence is required—
 15 credits
 - PHYS& 121, 122, and 123 OR PHYS& 221, 222, and 223
- 2. Chemistry with Lab
 - CHEM&141, 151
- 3. Additional mathematics courses (required of all—be sure to consult advisor to identify correct path)—5 or 6 credits
 - MATH&153 or MATH 203 AND 204

Elective Requirements - 32 credits

Students are again advised to consult with an advisor to ensure that the courses selected are the best fit for their major and transfer intent. Sequences should be started and finished at the same institution.

Engineering Major

Choose from the courses listed below:

- CHEM& 142, 143, 152, 153, 241, 242, 243, 251, 252, 253
- CSE 101, 120, 121, 222, 223, 224, 290
- CS& 131, 141
- ENGR& 104, 114, 204, 214, 215, 224
- ENGR 101, 102, 103 107, 109 113, 115, 120, 121, 140, 150, 221, 225, 239, 250, 252, 253, 270, 280
- MATH& 254
- MATH 215, 221

Non-engineering Major

The remaining credits should be planned with the help of an advisor based on the requirements of the specific discipline at the baccalaureate institution the student selects to attend. Students can choose from the following list:

- BIOL& 100, 221, 222, 223, 224, 251, 252, 253, 260
- BIOL 101, 164, 165, 208,

- CHEM& 142, 143, 152, 153, 241, 242, 243, 251, 252, 253
- CSE 120, 121, 222, 223, 224, 290
- CS& 131, 141
- ENGR& 104, 114, 204, 214, 215, 224
- ENGR 101, 102, 107, 109 113, 115, 120, 121, 140, 150, 221, 225, 239, 250, 252, 253, 270, 280
- ENVS 210, 218L
- MATH& 153, 254
- MATH 203, 204, 215, 221
- PHYS& 221, 222, and 223
- The pre-calculus courses (MATH 103 and 111) might also be used as electives if these courses had to be taken in preparation for the calculus sequence.

Associate in Science Transfer – State-articulated programs

In addition to the general Associate in Science degree, there are several articulated programs that utilize the Associate in Science Tracks 1 and 2.

Associate of Science – Track 1:

Biology Education

Chemistry Education

General Science Education

Associate of Science - Track 2:

Bioengineering and Chemical Engineering

Computer and Electrical Engineering - MRP

Mechanical/Civil/Aeronautical/Industrial/Materials Science Engineering

Physics Education

These degrees listed above have slightly different graduation requirements than other Clark transfer degrees because the curriculum was created via an articulation agreement between Washington two-year and four-year schools. Most notably, these AS degrees do not share Clark's requirement for HPE. Clark students are encouraged to take HPE, where appropriate, in case their degree choice changes. General Education requirements and general credit restrictions are identical.

Associate in Applied Science – Transfer Degree (AAS-T)

The Associate in Applied Science – Transfer degree (AAS-T) is designed to build upon the technical courses required for job preparation but also includes a college-level General-Education component, common in structure for all such degrees. In general, technical degree programs are not designed for transfer to other colleges or universities. However, several four-year colleges and universities have specific bachelor's degree programs that accept AAS-T degrees. Clark College currently has one AAS-T degree in Early Childhood Education (see the Early Childhood Education program description in this catalog for specific program requirements).

Students seeking to transfer into degree programs other than those specifically designed for the AAS-T are urged to consider the DTA or AS-T in preparation for transfer. Majors outside the specifically designed degrees listed above likely will accept very few of the credits in the AAS-T degree (English composition, college-level math, and other general education courses will transfer).

Career and Technical Degrees and Certificates

Associate in Applied Science (AAS)

Associate in Applied Technology (AAT)

Certificate of Proficiency (CP)

Certificate of Achievement (CA)

Certificate of Completion

Degree & Certificate Intent

The career and technical education degrees and certificates are designed for students interested in gaining specific technical career skills. Students focus on completing program specific coursework, balanced by minimal general education courses. Although the Associate in Applied Science and the Associate in Applied Technology degree programs are not designed to guarantee transfer to a senior institution, some institutions may accept technical coursework for students in certain areas of study. Students should contact an advisor and/or the senior institution for additional information.

General Requirements

Complete a minimum number of credits in specified curriculum:

- Associate Degree: Ninety (90) credits minimum
- Certificate of Proficiency: Forty-five (45) credits minimum
- Certificate of Achievement: Forty-four (44) credits maximum
- Maintain a minimum cumulative GPA of 2.00 or higher.

Meet academic residency requirements as follows:

- Associate Degree: Thirty (30) credits minimum must be completed at Clark College.
- Certificate of Proficiency: Fifteen (15) credits minimum must be completed at Clark College.
- Certificate of Achievement: Ten (10) credits minimum must be completed at Clark College.
- Earn a grade of "C" (2.00) or higher in each major area requirement and specifically listed course unless otherwise noted in the department requirements of Section C.

General Credit Restrictions

Physical Education Activity: Six (6) credits maximum in PE activity can apply toward the degree. Eligible HPE courses count as one (1) PE activity credit.

Non-Traditional Coursework: Thirty (30) credits maximum in non-traditional coursework. This includes AP, IB (see further restriction below), CLEP, Cooperative Work Experience, Credit by Challenge, Military Experience, and Special Projects. Because of its dual transcription, Tech Prep coursework in excess of 30 credits is allowed.

Advanced Placement / International Baccalaureate: Fifteen (15) credits combined maximum in Advanced Placement (AP) and International Baccalaureate (IB).

Pass / Fail Grading Option: Thirty (30) credits maximum in courses with Pass / Fail grading option. For AAS degrees in nursing, the thirty-credit maximum is waived due to clinical requirements.

General Information

For Associate in Applied Science degrees, General Education courses are restricted to two (2) distribution areas in the general education area of the degree.

Credit by Challenge coursework will meet academic residency requirements.

Associate in Applied Science (AAS)

The Associate in Applied Science degree is designed for students who wish to complete a program with a specific career and technical education objective. Students are required to complete a minimum of thirty (30) credits at Clark College to meet Academic Residency requirement. Students are required to maintain a cumulative GPA of 2.00 to receive this degree.

General Education Requirements

Note: Some specific requirements of a program may also meet the General Education requirements.

Communication Skills [C] - 6 credits minimum

Select one (1) course from list one and an additional course from either list one or list two, depending on program requirements.

List One	List Two
BTEC 107	CMST& 210
ENGL 098	CMST& 220
ENGL 099	CMST& 230
ENGL& 101 or ENGL 135	CMST 212
ENGL& 102	
ENGL 108	
ENGL 109	
ENGL 110	
ENGL& 235	
ENGL 212 or BUS 211	
MGMT 107	
PTWR 099	

Health & Physical Education [HE, HPE, PE] - 3 credits

Complete three (3) credits from either Option One or Option Two:

Option One: Complete two (2) credits of Health from the list below AND one (1) credit of any college-level PE activity course:

- HLTH 100, 101, 103, 104, 206, 207, 208, 210 or 278
- PE activity

Option Two: Complete three (3) credits from one (1) of the courses listed below:

• HPE 220, 258, or 266

Computational Skills [CP] - 3 credits

Complete three (3) credits from one of the following options:

- Any MATH course numbered 030 or higher, except MATH 096
- Environmental Science ENVS 135
- Computer Science CS& 131, 141
- Computer Science & Engineering CSE 121, 222, 223, 224
- Computer Technology CTEC 121, 123, 140, 141, 143, 224, 240, 241 281, 282
- A placement test score qualifying the student for entry into MATH 090 will satisfy this requirement for certain designated programs.

Human Relations [HR] - 3 credits

Complete three (3) credits from the list below:

- Communication Studies CMST 212; CMST& 210,230
- Human Development HDEV105, 123, or 155
- Any Psychology (PSYC) or Sociology (SOC) course
- Addiction Counselor Education ACED 201

Humanities [HA, HB] - 3 credits

Complete three (3) credits from the list below:

- Any Art course numbered 100 or above
- Communication Studies CMST102, 216, 240; CMST& 210, 220, 230
- Any English course in the AA Humanities distribution requirement
- Any World Language (ASL, CHIN, FRCH, GERM, JAPN, SPAN) course
- Any Humanities course
- Music MUSC 106, 116, 117, 118, 125, 135, 180, 181, 182, 183, 184, 185; MUSC & 104, 141, 142, 143
- Any Philosophy course
- Any Drama course
- Women's Studies WS 101, 201, or 210

Social Sciences [SS] – 3 credits

Complete three (3) credits from any of following departments (note the restriction on ACED and CMST):

Addiction Counseling - ACED 101, 201

Anthropology

Communication Studies - CMST& 230

Environmental Science - ENVS 231

Forensic Science

Geography

History

Political Science

Psychology

Sociology

Women's Studies

Natural Sciences [NS] - 3 credits

Complete three (3) credits from any of following departments (note the restriction on Agriculture, Anthropology, and Humanities):

Agriculture 175 Geology

Anthropology& 215 Humanities 180
Astronomy Meteorology
Biology Nutrition

Chemistry Physical Science

(except CHEM 050) Physics

Environmental Science

Specific Requirements in an Occupational Field

Students must complete the courses listed in their career plan, plus electives as needed to meet the ninety (90) credit requirement. Most occupational programs require more than fifty-nine (59) credits of specific requirements.

Associate in Applied Technology (AAT)

The Associate in Applied Technology degree is designed for students who wish to complete a program with a specific technical career objective. Students are required to complete a minimum of thirty (30) credits at Clark College to meet Academic Residency requirement. Students are required to maintain a cumulative GPA of 2.00 to receive this degree.

General Education Requirements

Note: Some specific requirements of a program may also meet the General Education requirements. A total of fifteen (15) credits between the three subject areas is required. You may take three (3) to five (5) credits from the courses listed below in each area of Communication Skills, Computational Skills and Human Relation, but the combined total needs to equal fifteen (15) credits.

Communication Skills [C] - 5 credits

Select a minimum of five (5) credits from the list below:

- BTEC 107
- ENGL& 101 or 135
- ENGL 212 or BUS 211
- ENGL& 235

Computational Skills [CP] - 5 credits

Complete five (5) credits from the list below:

- Math MATH 103, 105, 111, MATH& 107 or any course for which one of these is a prerequisite
- Computer Technology CTEC 100, 101, 121

Human Relations [HR] - 5 credits

Complete five (5) credits from the list below:

• Communication Studies - CMST 212, 216, CMST&210, 230

- Human Development HDEV 105, 123, 155, 186, 195, 198, 200
- Management MGMT100, 101, 104, 106, 110, 112, 120, 122, 125, 128, 132
- Psychology PSYC&100
- Sociology SOC& 101
- Women's Studies WS101

Specific Requirements in an Occupational Field

Students must complete the courses listed in their career plan, plus electives as needed to meet the ninety (90) credit requirement. All Associate in Applied Technology degree programs require at least seventy-five (75) credits minimum of major-related requirements.

Certificate of Proficiency (CP)

The Certificate of Proficiency is designed for students who wish to receive specialized occupational training for a specific career objective. Students must maintain a cumulative GPA of 2.00 and take a minimum of forty-five (45) credits to receive this certificate. Students are required to complete a minimum of fifteen (15) credits at Clark College to meet the Academic Residency requirement.

General Education Requirements

Note: Some specific requirements of a program may also meet the General Education requirements.

Communication Skills [C] - 3 credits

Complete a minimum of three (3) credits from the following course choices:

- BTEC 087 or 107
- BUS 211
- ENGL 097, 098, 099, 103, 135, 212
- ENGL& 101, 102, 235
- Any PTWR course

Note: Pharmacy Technician students may meet the Communication Skills requirement by achieving one of the following:

- 1. Completion of ENGL 098 and a score of 74 on Reading Skills.
- 2. COMPASS test score of 78 on Writing skills AND completion of READ 087.
- 3. COMPASS test score of 78 on Writing skills AND a score of 74 on Reading skills.

Computational Skills [CP] - 3 credits

Complete a minimum of three (3) credits from:

- Any Mathematics (MATH) course, except MATH 096
- Computer Science & Engineering 121, 222, 223, 224, CS& 131, CS& 141
- Any CTEC course except CTEC 102, 103, 104, 105, 115, 180, 181, 200, or 281
- Chemistry 050
- PHAR 110
- HEOC 011 Only meets the computational skills requirement for Medical Assistant
- Business Medical Office 040 Only meets the computational skills requirement for Health Information Assistant, Medical Billing/Coding Specialist, and Medical Transcriptionist

• Environmental Science 135

Human Relations [HR] - 3 credits

Complete a minimum of three (3) credits from:

- Communication Studies CMST212; CMST& 210, 230
- Any Human Development (HDEV), Psychology (PSYC), or Sociology (SOC) course
- Addiction Counselor Education 201
- Business Technology BTEC141, 143, 145, 147
- Business Medical Office BMED 166, 225, 226

Specific Requirements in an Occupational Field

Refer to the prescribed curriculum in the catalog for specific coursework.

Certificate of Achievement (CA)

The Certificate of Achievement is designed for students who wish to receive specialized occupational training for a specialized career objective requiring less than forty-five (45) credits. Students must maintain a cumulative GPA of 2.00 or better. Students are required to complete a minimum of ten (10) credits at Clark College to meet the Academic Residency requirement.

Certificate of Completion

The Certificate of Completion is designed for students who wish to gain entry-level skills or for those who wish to upgrade their skills in a short period of time. Certificates of Completion typically consist of three to four courses. They are awarded by the department with the approval of the program advisory committee and the Office of Instruction. The courses can be taken simultaneously or individually as your schedule allows. Certificates of Completion are not recorded on the student's Clark College transcript. These certificates are not awarded a standard Clark College diploma.

Certificates of Completion can be earned through the following departments:

- Business Technology
- Business Technology Medical Office
- Computer Technology
- Culinary Arts
- Early Childhood Education
- Nursing Assistant Certified
- Professional Baking

Application of Credit

Non-Traditional Credit Policy

360-992-2805

Non-traditional credits include those credits earned through Advanced Placement (AP), International Baccalaureate (IB), College Level Examination Program (CLEP), military experience, cooperative education work experience, Tech Prep/Direct Credit, Special Projects (Independent Study), and Credit by Challenge.

The following restrictions relate to the awarding of credits in non-traditional programs:

1. Credits may be awarded only if the learning experiences fall within the regular curriculum of the college.

- 2. Academic transcripts will indicate credits that are non-traditional.
- 3. Credits cannot duplicate credits already awarded.
- 4. Students should read the degree requirements section of this catalog for information about applying non-traditional credits toward a degree.
- 5. Students must be currently enrolled at Clark College and have an academic record before credits will be awarded.

Exception to this rule is made for direct transcription of credits through the High School Articulation of approved Tech Prep courses.

The following lists restrictions on the number of credits that can be applied through non-traditional credits in each degree or certificate program at Clark College:

Associate in Arts (AA) Associate in Fine Arts (AFA) and Associate in Science – Transfer (AST) degrees: A maximum of fifteen (15) credits earned through non-traditional means will apply toward the AA or AST programs. Credits earned will apply toward the general elective category only with the exception of approved AP, IB and Credit-by-Challenge tests, which will apply to distribution areas of both degrees.

Associate in Applied Science (AAS), Associate in Applied Technology (AAT), Certificate of Proficiency (CP), and Certificate of Achievement (CA) programs: A maximum of thirty (30) credits earned through non-traditional means will apply toward the AAS, AAT, CP and CA programs. Credits earned will apply toward electives, distribution, or program requirements. Academic Residency requirements must be met as well. For the AAS, AAT and CP, approved AP, IB and Credit-by-Challenge test will apply to general education requirements where applicable. Exception: more than 30 credits of Tech Prep credit may be applied.

Advanced Placement (AP)

Students who complete the Advanced Placement (AP) examination in high school may be eligible for college credit if the appropriate score was earned on The College Board national examination. Where appropriate, AP credit may apply toward the general education distribution requirements of any program at Clark College. However, students intending to transfer with an Associate in Arts or Associate in Science – Transfer degree should consult with the Admissions Office at the baccalaureate institution of their choice for information on AP credit policies. Not all institutions recognize AP credit posted to the Clark College transcript. A maximum of fifteen (15) credits in AP coursework can apply to the Associate in Arts or the Associate in Science – Transfer programs.

Procedure for Requesting AP Credits

Students should have an official copy of their AP scores sent to Clark College, Attn: Credential Evaluations/GHL 128, 1933 Fort Vancouver Way, Vancouver, WA 98663. Once scores are received and reviewed, a letter will be sent to the student regarding the status of their AP scores. If the scores meet the minimum standards, a petition form will also be sent. Students need to complete the petition form, pay the transcription fee at the Cashier's Office and submit both the petition form and receipt of payment to the Credential Evaluation Office in Gaiser Hall. AP credits are posted to the transcript at the end of the quarter in which the request was submitted as long as the student is enrolled.

Scores

Credit is posted with an "S" grade based on the following recommendations:

Biology Grade: 4

Action: BIOL& 100 (5 credits)

Chemistry (Chemistry Exam)

Grade: 3 or 4

Action: CHEM& 141, 151 (4), (1) credits

Grade: 5

Action: CHEM& 141, 151 (4), (1) credits and CHEM& 142, 152 (4), (1) credits

Computer Science

See computer science advisor for credit and placement.

English (Language and Composition Exam)

Grade: 3, 4, or 5

Action: ENGL& 101 (5 credits)

English (Composition and Literature Exam)

Grade: 3, 4, or 5

Action: ENGL& 101 (5 credits)

English (Composition and Literature Exam and Language and Composition Exam)

Grade: 3, 4, or 5 on each exam

Action: ENGL& 101 (5 credits) and ENGL& 102 (5 credits)

French

Grade: 3

Action: FRCH& 221 (5 credits)

Grade: 4*

Action: FRCH& 221 (5 credits) and FRCH& 222 (5 credits)

Grade: 5*

Action: FRCH& 221 (5 credits), FRCH& 222 (5 credits), and FRCH& 223 (5 credits)

*May require an additional proficiency interview with the department before credits are granted.

German

Grade: 3

Action: GERM& 221 (5 credits)

Grade: 4*

Action: GERM& 221 (5 credits) and GERM& 222 (5 credits)

Grade: 5*

Action: GERM& 221 (5 credits), GERM& 222 (5 credits), and GERM& 223 (5 credits)

*May require an additional proficiency interview with the department before credits are granted.

Geography

Grade: 5

Action: GEOG& 100 (5 credits)

Government and Politics

Grade: 4 or 5

Action: POLS 111 (5 credits)

Japanese

Grade: 3

Action: JAPN& 221 (5 credits)

Grade: 4*

Action: JAPN& 221 (5 credits) and JAPN& 222 (5 credits)

Grade: 5*

Action: JAPN& 221 (5 credits), JAPN& 222 (5 credits), and JAPN& 223 (5 credits)

*May require an additional proficiency interview with the department before credits are granted.

Mathematics (Calculus AB Exam)

Grade: 3 or 4

Action: MATH& 151 (5 credits)

Grade: 5

Action: MATH& 151 (5 credits) and MATH& 152 (5 credits)

Mathematics (Calculus BC Exam)

Grade: 3 or 4

Action: MATH& 151 (5 credits) and MATH& 152 (5 credits)

Grade: 5

Action: MATH& 151 (5 credits), MATH& 152 (5 credits), and MATH& 153 (5 credits)

Physics (Physics B Exam)

Grade: 3, 4, or 5

Action: PHYS& 121 (5 credits)

Physics (Physics C Mechanics Exam)

Grade: 3 or 4

Action: PHYS& 121 (5 credits)

Grade: 5

Action: PHYS& 221 (5 credits)

Psychology

Grade: 4 or 5

Action: PSYC& 100 (5 credits)

Spanish

Grade: 3

Action: SPAN& 221 (5 credits)

Grade: 4*

Action: SPAN& 221 (5 credits) and SPAN& 222 (5 credits)

Grade: 5*

Action: SPAN& 221 (5 credits), SPAN& 222 (5 credits), and SPAN& 223 (5 credits)

*May require an additional proficiency interview with the department before credits are granted.

Statistics (Statistics Exam)

Grade: 4 or 5

Action: MATH 203 (3 credits) and MATH 204 (3 credits)

U.S. History

Grade: 3

Action: HIST& 146 (5 credits), HIST& 147 (5 credits), and HIST& 148 (5 credits)

World History

Grade: 3

Action: HIST& 126 (5 credits)

For any AP test that is not listed above, you must receive a score of 3 or better in order to receive 5 credits of General Electives. All non-traditional restrictions still apply.

Where to Get AP Scores

Advanced Placement Program

The College Board

PO Box 6671

Princeton, NJ 08541-6671

Phone: 609-771-7300 TTY: 609-882-4118 www.collegeboard.org

College Level Examination Program (CLEP)

360-992-2805

Clark College awards credit for successful CLEP examinations. A list of subjects and required scores follows. Students pursuing a transfer degree (Associate in Arts, Associate in Science – Transfer, or Associate in Fine Arts) may only use CLEP credit to fulfill general elective requirements. Please refer to the Non-Traditional Credits Policy section for details on additional restrictions on CLEP credits.

CLEP General Examinations

Each examination is awarded a maximum of nine (9) quarter hours of credit. The required score for each examination is listed below:

English Composition with essay	50
Humanities	50
College Mathematics	50
Social Sciences/History	50
Natural Sciences	50

Any college coursework completed in the above discipline areas prior to the examination will be subtracted from the nine (9) credits allowed. Refer to the Non-Traditional Credits Policy section for further restrictions on the number of credits applicable toward specific programs.

Example: A student who has completed a five (5) credit biology course at a college or university would be allowed four (4) credits on a successful Natural Science examination.

Credits earned through the general CLEP program will appear on the student transcript under the general heading of the examination completed and will reflect a course number of "298" (i.e. ENGL 298, CLEP Examination). Credit is posted with an "S" grade at the end of the quarter. CLEP credits are not equated to any specific course at Clark College and do not affect a student's GPA since they do not carry a letter grade. Not all institutions accept

CLEP credits. Students intending to transfer to another institution should contact the transfer institution for information on their CLEP policy.

CLEP Subject Examinations

Students who complete CLEP subject examinations may be eligible for credit at Clark College. The decision to grant credit for this type of examination is the responsibility of the department in which the examination was completed. All subject examinations, except foreign language, require department evaluation. *Again, those students pursuing a transfer degree (AA, AFA or AS) may only use these exams in the general elective area of their degree.* The required score for each foreign language is as follows:

French, Level 1: 50 or French, Level 2: 62

10 credits granted for FRCH& 121 and 122

German, Level 1: 50 or German, Level 2: 63

10 credits granted for GERM& 121 and 122

Spanish, Level 1: 50 or Spanish, Level 2: 66

10 credits granted for SPAN& 121 and 122

To be considered for credit, a student must pass the examination with the equivalent of a "C" or better grade. Credit will be awarded for the equivalent course(s) at Clark College for vocational/technical programs, as determined by the appropriate department. Students who have already earned credit in a course of a higher academic level than the examination covered will not receive credit for the CLEP examination. The transcript will reflect the credit granted by listing the equivalent course number, title, and credits, with a notation stating "CLEP Examination" for the Applied Science and Technical Degrees only. Refer to the Non-Traditional Credits Policy section for further restrictions on the number of credits applicable toward specific programs.

Procedure for Requesting CLEP Credits

Students should have an official copy of their CLEP scores sent to Clark College, Attn: Credential Evaluations. Once scores are received and reviewed, a letter will be sent to the student regarding the status of their CLEP scores. If the scores meet the minimum standards, a petition form will also be sent. Students need to complete the petition form, pay the transcription fee at the Cashier's Office, and submit both the petition form and receipt of payment to the Credential Evaluations Office in Gaiser Hall. CLEP credits are posted to the transcript at the end of the quarter.

Testing Facilities

Although Clark College accepts CLEP, the college is not a testing site. The nearest CLEP testing facility is Mt. Hood Community College in Oregon. Please contact MHCC at 503-491-7591 for information on testing availability and cost.

Where to Get CLEP Scores

CLEP Transcript Service PO Box 6600 Princeton, NJ 08541-6600 Phone: 1-800-257-9558 www.collegeboard.org

Cooperative Education Work Experience

360-992-2239 or 360-992-2964

Clark College recognizes the value to students of actual experience in a work environment. Credits earned through this program may meet general elective requirements and/or core program requirements.

Cooperative Education Work Experience is a non-traditional credit program and is subject to the restrictions listed under the Non-Traditional Credit Policy section in this catalog.

Credit by Challenge

Students who have previously taken courses, established a transcript record at Clark, and believe that previous experience has provided them with the competencies essential for passing a course may request to challenge that course. Students wishing to challenge a course may not be currently enrolled in the course they wish to challenge, nor may students challenge courses if they have not completed a course with a higher degree of difficulty. Some courses may not be challenged. Courses and grades resulting from the challenge process will be posted to the student's transcript record at the end of the quarter in which the exam was proctored. Please contact the appropriate instructional department for more information.

Credit by Challenge is a non-traditional credit program and is subject to the restrictions listed under the Non-Traditional Credit Policy section in this catalog.

International Baccalaureate (IB)

360-992-2805

Clark College recognizes the International Baccalaureate (IB) program as a coherent, challenging course of study and responds individually to each participant's petition for granting of college credit. Students may be awarded credit for completing individual areas of study within the program. A minimum score of five (5) on the higher-level examination is required for consideration of credit. Standard-level examinations are not granted credit. A maximum of fifteen (15) credits in IB coursework can apply to the Associate in Arts or Associate in Science – Transfer programs.

Students should submit official IB transcripts to Credential Evaluations in Gaiser Hall for review. Once scores are received and reviewed, the student will receive a letter from the Credential Evaluations office. If the scores meet the minimum standards, a petition form will also be sent. Students need to complete the petition form, pay the transcription fee at the Cashier's Office, and submit both the petition form and receipt of payment to the Credential Evaluations Office in Gaiser Hall. Specific department policies are listed below. Examinations completed in areas not listed below require appropriate department chair approval before credit will be granted.

The International Baccalaureate program is a non-traditional credit program and is subject to the restrictions listed under the Non-Traditional Credit Policy section in this catalog.

Mathematics

Students successfully completing the Higher Level Mathematics Exam with a minimum score of five (5) will be granted credit for MATH& 151 (5 credits) and may register for MATH& 152 (5 credits).

Chemistry

Students successfully completing the Higher Level Chemistry Exam with a minimum score of five (5) will be granted college credit for CHEM& 141, 151, 142, 152, 143, and 153 (16 credits).

Physics

Students successfully completing the Higher Level Physics Exam with a minimum score of five (5) will be granted college credit for PHYS& 121, 122, and 122 (15 credits).

Military Experience

360-992-2711

Students may be granted general elective credit for experience gained from military training. Credit recommendations are based on the American Council on Education (ACE) guidelines. Clark College does not post military experience credit as a specific course. The transcript will reflect the credits under the heading of "Military Experience" with the total number of credits granted.

Military experience is a non-traditional credit program and is subject to the restrictions listed under the Non-Traditional Credit Policy section in this catalog. Contact the Veterans Affairs Office at Clark College for further information.

Special Projects (Independent Study)

To provide for challenging learning experiences beyond regular coursework, more-advanced students may arrange to undertake Special Projects. With the approval of the division chair and under instructor supervision, students are given the opportunity to plan, organize, and complete independent study projects.

Special Projects are listed in the department course description section of the catalog as course number 290. No more than fifteen (15) credits in Special Projects will be allowed toward the Associate in Arts degree. Students are responsible for ensuring that the credits earned do not exceed this limit and that credits earned will be accepted for transfer. Students should contact the instructor to register for a Special Projects course.

Special Projects coursework is a non-traditional credit program and is subject to the restrictions listed under the Non-Traditional Credit Policy section in this catalog.

Tech Prep/Direct Credit

Tech Prep/Direct Credit is a dual-credit program that allows high school students to earn college and high school credits simultaneously in selected high school career and technical education courses. These courses have been identified and approved through formal articulation agreements created between Clark College and local high schools.

Students must earn a grade of "B" or better to qualify. Students interested in the Tech Prep/Direct Credit program should contact their high school career counselor to learn more about the program and which classes qualify.

High School Articulation/Tech Prep is a non-traditional credit program and is subject to the restrictions listed under Non-Traditional Credit Policy section in this catalog. If credit is granted, it will appear as an "S" grade on the student's transcript.

Transfer Institution Accreditation Requirements

Clark College accepts credits from regionally accredited institutions of higher education. Recognized accrediting bodies are as follows:

- Middle States Association of Colleges and Schools (MSA)
- New England Association of Schools and Colleges, Inc./Commission on Institutions of Higher Education (NEASC-CIHE)
- North Central Association of Colleges and Schools (NCA)
- Northwest Commission on Colleges and Universities (NWCCU) (formerly known as Northwest Association of Schools and Colleges [NASC])
- Southern Association of Colleges and Schools/Commission on Colleges (SACS-CC)

- Western Association of Schools and Colleges/Accrediting Commission for Community and Junior Colleges (WASC-Jr.)
- Western Association of Schools and Colleges/Accrediting Commission for Senior Colleges and Universities (WASC-Sr.)

Domestic Institution Transfer Policy

Students who have attended other institutions of higher education may choose to transfer credit to Clark College to meet degree requirements. Any Health Occupation, competitive-entry program student MUST provide all transfer institution transcripts. Although there is no limit on the number of credits that can transfer into the college, students must meet the Academic Residency requirements for their program. The Credential Evaluations Office will review the content of each course transferred and determine the appropriate course equivalency.

International Institution Transfer Policy

Students with credits from international institutions of education may submit their academic records for credit consideration. The amount of credit awarded will vary, based on the individual record of the student. Clark College does not recognize English coursework completed in countries outside of the United States, with the exception of Australia, Canada (except Quebec province), Ireland, New Zealand, and the United Kingdom.

Clark College requires translation and evaluation of the student's academic record from an agency that is a member of the National Association of Credential Evaluation Services. A current list of members is available online at www.naces.org. The costs of agency services are the responsibility of the student.

2011-2012 Associate in Arts Degree - General Transfer Worksheet— **Unofficial Evaluation**

This is an unofficial evaluation for advising purposes only. Currently enrolled students may request an official evaluation of coursework from the credential evaluations office after obtaining fifteen (15) credits from Clark College. Refer to degree requirements in this section for general information and academic residency requirements.

The Associate in Arts (AA) degree is for students intending to transfer to a four-year institution. Also known as a Direct Transfer Agreement (DTA) Associate degree, the AA meets all or most general education requirements at most universities in Washington and several in Oregon. Students are required to maintain a college level grade point average of 2.00 to receive this degree. Refer to degree requirements for eligible courses and certain restrictions.

General Education Requirements

For the following requirements refer to the lists of applicable courses under the General Education Requirements for the Associate in Arts.

Communication	Skills [C1	-10	credits	min.
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Must Include ENGL&101 or ENGL135	of five (5) credits of 100-level foreign lang be applied.
Credits Needed Total	
	Credits Needed Total
Quantitative Skills [Q] – 5 credits	
Complete a minimum of five (5) credits of coursework 100-level or above with an intermediate algebra prerequisite.	Social Science [SS] – 15 credits Select courses from at least three (3) areas for a minimum of fifteen (15) of You may include no more than ten (15) credits from any one subject area.
Credits Needed Total	
Health and Physical Education [HE, PE,	
HP] – 3 credits	
	Credits Needed Total
	Natural Sciences [NS] – 15 credits
Credits Needed Total	Select courses from at least two (2) subjection a minimum of fifteen (15) credits. You include no more than ten (10) credits fro
Oral Communication [OC] – 5 credits Complete CMST& 210, 220 or 230.	subject area. You must include at least on ence. MATH and CTEC courses do not requirement, except MATH 135.
Credits Needed Total	
	Г

Distribution Requirements

Humanities [HA, HB] - 15 credits

Select courses from at least two (2) subject areas for a minimum of fifteen (15) credits. You may include no more than ten (10) credits from any one subject area. A maximum of five (5) credits of "B" list coursework may be applied. A maximum edite of 100 le

r nve (3) credits or 100-level foreign languag e applied.	ge can
	<u> </u>
	Credits Needed
Credits Needed Total	
ocial Science [SS] – 15 credits	General Electiv These courses may
elect courses from at least three (3) sub- reas for a minimum of fifteen (15) cred ou may include no more than ten (10)	ject Career and Techn
redits from any one subject area.	the recieving bace Coursework in ES AA degree progra

Credits Needed	Total	
	,	

ect courses from at least two (2) subject areas a minimum of fifteen (15) credits. You may ude no more than ten (10) credits from one ject area. You must include at least one lab scie. MATH and CTEC courses do not fulfill this uirement, except MATH 135.

Total

Credits Needed

Elective Requirements Specified Electives [SE] - 12 credits

Courses that apply: [C, Q, HA, HB, HE, HPE, SS, NS, OC, PE, SE] - 12 credits.

A maximum of two (2) credits in PE activity can apply towards this area. Courses coded as HPE count as one (1) credit of PE activity.

Credits Needed Total	

ves [GE] - 15 credits

be vocational in nature from ical education courses. The the Career-Technical courses evel courses is determined by alaureate institution. Note: SL or FLPC cannot apply to the

Credits Needed Total
Notes:

University: Major: Advisor:

Date:

2011–2012 Associate in Science Transfer Degree – Track 1 Worksheet—Unofficial Evaluation

This is an unofficial evaluation for advising purposes only. Currently enrolled students may request an official evaluation of coursework from the credential evaluations office after obtaining fifteen (15) credits from Clark College. Refer to degree requirements in this section for general information and academic residency requirements.

The Associate in Science degree–Track 1 is intended for students planning to transfer to a four-year institution to further their study of Biological Sciences, Environmental/Resource Sciences, Chemistry, Geology, or Earth Sciences. Students are required to maintain a cumulative grade point average of 2.00 to receive this degree.

Additional mathematics courses 5 or 6 credits:

(be sure to consult advisor to identify correct path)

Pre-Major Sequence -

45 to 52 credits

Required Electives

Science Electives - 10 to 15 credits

Complete an additional ten (10) to fifteen

(15) credits (preferably in a two or three quarter

General Education Requirements

For the following requirements refer to the lists of applicable courses under the General Education Re-

quirements for the Associate in Science – Track 1.	 MATH&153 or MATH 203 AND 204 	sequence) in courses from the following list:
Communication Skills [C] – 5 credits ENGL& 101	Additional Science Sequence Requirements 15-30 credits: One of the following sequence paths depending on the above parties.	a. Biology 208, 221, 222, 223, 224, 251, 252, 253, 260
	ing on the chosen major	b. Chemistry 241, 242, 243, 251, 252, 253
Credits Needed Total	A. Biological Science	c. Environmental Science 210
	• BIOL&221L, 222L, and 223L	d. Geology 101, 102, 103, 218
Quantitative Skills [Q] – 10 credits	Students should then consult with the baccalaure-	e. Math 153, 203, 204, 205, 215, 221, 254
MATTI 0-151	ate institution to see which of these sequences should be taken: CHEM&241, 242, 243, 251L,	f. Physics 121, 122, 123, 221, 222, 223
MATH &151	252L, and 253L; OR PHYS&121L, 122L, and	
MATH &152	123L.	
	B. Chemistry and Geology Majors	
	• PHYS&221L, 222L, and 223L.	
	C. Environmental/Resource Sciences & Earth Science Majors	
	Complete 15 credits in one of the following three-	
Credits Needed Total	course sequences (consult the baccalaureate institu-	
	tion for best information):	
Health and Physical Education [HE, PE,	• BIOL&221L, 222L, and 223L, or	
HP] – 3 credits	• PHYS&121L, 122L, and 123L, or	
	• PHYS&221L, 222L, and 223L	Credits Needed Total
		Och an Elastina [CE] See 12 and ite
		Other Electives [GE] - 5 to 12 credits
Credits Needed Total		Sufficient additional college-level credits so that total
		credits earned is at least 90 quarter credits. These
Humanities and Social Science [HA, SS] –		remaining courses may include prerequisites for major courses (e.g., Math 103 and 111), additional major
15 credits		coursework, or specific general education or other
Select five (5) credits of coursework from Humanities List A, five (5) credits of coursework from Social		university requirements, as approved by the advisor.
Sciences, and an additional five (5) credits of course-		
work from either area for a minimum of fifteen		
(15) credits. Humanities List A and Social Science		
courses must be selected from the Associate of Arts Distribution List.	Credits Needed Total	
Distribution List.		
	Notes:	
		Credits Needed Total
		Credits received
	Advisor:	
Credits Needed Total	Date:	

2011-2012 Associate in Science Transfer Degree - Track 2 Worksheet—Unofficial Evaluation

This is an unofficial evaluation for advising purposes only. Currently enrolled students may request an official evaluation of coursework from the credential evaluations office after obtaining fifteen (15) credits from Clark College. Refer to degree requirements in this section for general information and academic residency requirements.

The Associate in Science degree—Track 2 is intended for students planning to transfer to a four-year institution to further their study of Engineering, Computer Technology, Physics, and Atmospheric Science. Students are required to maintain a cumulative grade point average of 2.00 to receive this degree.

General Education Pre-Major Program Elective Requirements -Requirements Requirements - 25 credits 32 credits For the following requirements refer to the lists of All students planning to earn the Associate in Science The remaining credits should be planned with the applicable courses under the General Education Re-- Track 2 degree are required to complete the followhelp of an advisor based on the requirements of the quirements for the Associate in Science - Track 2. ing course sequences. Please note that there are differspecific discipline at the baccalaureate institution ent sequences for Engineering and Non-engineering Communication Skills [C] - 5 credits the student selects to attend. majors. The sequences taken are dependent on the ENGL& 101..... major of the student. Sequences should be started and finished at the same institution to ensure proper transfer. Students MUST consult with faculty or advising staff to pick the correct sequences. Credits Needed **Engineering Major** 1. Calculus-based Physics sequence -15 credits Quantitative Skills [Q] - 10 credits • PHYS& 221, 222, and 223 Refer to reverse for a list of eligible courses. 2. Chemistry with Lab • CHEM&141, 151 MATH& 151..... 3. Additional mathematics courses (required of all be sure to consult advisor to identify correct path) -MATH& 152..... • MATH&153 or MATH 203 AND 204 Non-engineering Major 1. One of the Physics sequences—Consult with the baccalaureate institution to see which sequence is Credits Needed **Total** required -15 credits Humanities and Social Science [HA, SS] -• PHYS& 121, 122, and 123 OR PHYS& 221, 222, and 223 15 credits 2. Chemistry with Lab Select five (5) credits of coursework from Humani-• CHEM&141, 151 ties List A, five (5) credits of coursework from Credits Needed **Total** Social Sciences, and an additional five (5) credits 3. Additional mathematics courses (required of all of coursework from either area for a minimum of be sure to consult advisor to identify correct path) – fifteen (15) credits. Humanities List A and Social 5 or 6 credits Notes: Science courses must be selected from the Associ- MATH&153 or MATH 203 AND 204 ate of Arts Distribution List. Credits Needed Total Health and Physical Education [HE, PE, HP] - 3 credits Advisor: Credits Needed Total Date: Credits Needed **Total**

2011–2012 Associate in Applied Science Degree Worksheet — Unofficial Evaluation

This is an unofficial evaluation for advising purposes only. Currently enrolled students may request an official evaluation of coursework from the credential evaluations office after obtaining fifteen (15) credits from Clark College. Refer to degree requirements in this section for general information and academic residency requirements.

The Associate in Applied Science degree is designed for students who wish to complete a program with a specific career and technical education career objective. General education courses are restricted to two (2) distribution areas in general education. Students are required to maintain a cumulative grade point average of 2.00 to receive this degree.

General Education Requirements	Social Science – 3 credits	
For the following requirements refer to the lists of applicable courses under the General Education Requirements for the Associate in Applied Science.		
Communication Skills – 6 credits min.	Credits Needed Total	
	Sciences – 3 credits	
	Credits Needed Total	
Credits Needed Total	Specific Requirements in an	
Health and Physical Education – 3 credits	Occupational Field	
,	Students must complete the courses listed in their career plan, plus electives as needed to meet the ninety (90) credit requirement. Most occupational	
	programs require more than fifty-nine (59) credits of specific requirements.	
Credits Needed Total		
Computational Skills – 3 credits		
Credits Needed Total		Credits Needed Total
Human Relations – 3 credits		Notes:
Credits Needed Total		
Humanities – 3 credits		
Tumametes – 5 credits		
Credits Needed Total		Advisor:
		Date:

2011–2012 Associate in Applied Technology Degree Worksheet — Unofficial Evaluation

This is an unofficial evaluation for advising purposes only. Currently enrolled students may request an official evaluation of coursework from the credential evaluations office after obtaining fifteen (15) credits from Clark College. Refer to degree requirements in this section for general information and academic residency requirements.

The Associate in Applied Technology degree is designed for students who wish to complete a program with a specific career and technical education career objective. Students are required to maintain a cumulative grade point average of 2.00 to receive this degree.

General Education Requirements	Specific Requirements in an Occupational Field	
For the following requirements refer to the lists of applicable courses under the General Education	Students must complete the courses listed in their career plan, plus electives as needed to meet the ninety (90) credit requirement. All Associate in	
Requirements for the Associate in Applied Technology. All general education courses must be 100-level or above. A minimum of fifteen (15) credits are required from the distribution areas	Applied Technology degree programs require at least seventy-five (75) credits minimum of major-related requirements.	
listed below.		
Communication Skills – 5 credits		
Credits Needed Total		
2011		
Computational Skills – 5 credits		
Credits Needed Total		Credits Needed Total
Human Relations – 5 credits		Notes:
Credits Needed Total		
		A division.
		Advisor:
		Date:

2011–2012 Certificate of Proficiency Worksheet — Unofficial Evaluation

This is an unofficial evaluation for advising purposes only. Currently enrolled students may request an official evaluation of coursework from the credential evaluations office after obtaining fifteen (15) credits from Clark College. Refer to degree requirements in this section for general information and academic residency requirements.

The Certificate of Proficiency is designed for students who wish to receive specialized occupational training for a specific career objective. Students must maintain a cumulative grade point average of 2.00 to receive this certificate.

General Education Requirements	Specific Requirements in an Occupational Field	Notes:
For the following requirements refer to the lists of applicable courses under the General Education Requirements for the Certificate	Refer to the prescribed curriculum in the catalog for specific coursework.	
of Proficiency. Communication Skills – 3 credits		
Credits Needed Total Total		
Computational Skills – 3 credits		
Credits Needed Total		
Human Relations – 3 credits		
Credits Needed Total		
	Credits Needed Total	
		Advisor:
		Date:

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General - Art (suggested) (AA)	7	Assistant (AAS)	
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BioEngineering & Chemical Pre-Engineering (AST2)		Business Technology-Medical Receptionist (CA)	
Biological Sciences (Transfer)		Business Technology-Medical Transcriptionist (CP)	
Biological Sciences (AST1)		Chemistry (Transfer)	
Biology Education (AST1)		Chemistry (AST1)	
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Business Administration		Communication Studies (Transfer)	
Accounting Clerk (CP)		Computer Aided Design & Drafting Technology	
Accounting (AAS)		Architectural Computer-Aided Drafting & Design (CP)	
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Professional Sales (CP)		Web Design and Development (AAT)	
Small Business Management (CP)		Web & Graphic Design (AAT)	
Supervisory Management (CA)		Web Design (CP)	
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ECE-Infant Toddler (CA)	102	Music (Transfer)	
ECE-School-Age (CA)	102	Network Technology(CA)	
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Addiction Counselor Education

Addiction counselors work with families and individuals of all ages who are experiencing problems with addictive behaviors. Counselors may work as members of treatment teams in inpatient or outpatient settings, with schools, or in businesses. They provide group, individual, and couples therapy as well as assessments and interventions. Addiction counselors also work as liaisons for their clients to judicial systems, schools, state services, and communities. Counselors may serve as educators in their communities, acquainting community members with treatment options and prevention strategies for the community. Please contact the Addiction Counselor Education Department (ACED) program advisor for current Washington state certification requirements.

Students must complete all specifically listed courses and Major Area Requirements with a minimum grade of "C" or better in order to successfully complete the program and be awarded the award.

Refer to the Degree & Certificate Requirements Section of the Clark College Catalog to identify the courses needed to satisfy the General Education Requirements.

Addiction Counselor Education (CP)

The Certificate of Proficiency in Addiction Counselor Education equips members of the helping professions as well as other professions with knowledge of the addiction disorders and behaviors in order to assist them in the delivery of services to their clients and patients. Knowledge of addictive processes can greatly assist members of law enforcement, teachers, health care workers, corrections and social services workers, among others, in performing their jobs in a more comprehensive manner. This certificate is intended only for those students already holding an associate degree or above.

General Education Requirements

ENGL& 101	ENGLISH COMPOSITION I	5 cr.
Computational S	Skills (3 credits required)	
Human Relation	s (3 credits required)	
PSYC& 100	GENERAL PSYCHOLOGY	5 cr.
Major Area I	Requirements	
ACED 101	SURVEY OF ADDICTIONOLOGY *	3 cr.
ACED 122	INTRODUCTION TO ADDICTIONS COUNSELING SKILLS	3 cr.
ACED 125	GROUP COUNSELING IN ADDICTIONS	3 cr.
ACED 132	INTRODUCTION TO COUNSELING FAMILY MEMBERS	3 cr.
ACED 136	LAW AND ETHICS IN ADDICTIONS COUNSELING	3 cr.
ACED 137	ADDICTIONS AND MENTAL ILLNESS	3 cr.
ACED 138	PREVENTION AND EDUCATION IN THE COMMUNITY	3 cr.
ACED 160	PHARMACOLOGY OF DRUGS OF ABUSE	3 cr.
ACED 164	ADOLESCENT ADDICTION ASSESSMENT & TREATMENT	3 cr.
ACED 170	AIR- AND BLOOD-BORNE PATHOGENS	2 cr.
ACED 201	THEORIES OF COUNSELING	3 cr.
ACED 202	MULTI-CULTURAL ADDICTIONS COUNSELING	3 cr.

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ACED 203	CASE MANAGEMENT IN ADDICTION MEDICINE	3 cr.
ACED 205	ADVANCED TECHNIQUES FOR ADDICTION COUNSEL	3 cr.
PSYC& 200	LIFESPAN PSYCHOLOGY	5 cr.

Total Required Credits: 57

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Addiction Counselor Education (AAS)

General Education Requirements

Communication	Skills	(6 credits	required)
Communication	כווואכ	(O CIEGILS	requireu,

ENGL& 101	ENGLISH COMPOSITION I	5 cr.
Health & Physica	al Education (3 credits required)	
Computational	Skills (3 credits required)	
	ns (3 credits required)	
PSYC& 100	GENERAL PSYCHOLOGY	5 cr.
Humanities (3 cr		
	(3 credits required)	
PSYC& 200	LIFESPAN PSYCHOLOGY	5 cr.
Natural Sciences	s (3 credits required)	

Major Area Requirements

ACED 101	SURVEY OF ADDICTIONOLOGY *	3 cr.
ACED 122	INTRODUCTION TO ADDICTIONS COUNSELING SKILLS	3 cr.
ACED 125	GROUP COUNSELING IN ADDICTIONS	3 cr.
ACED 132	INTRODUCTION TO COUNSELING FAMILY MEMBERS	3 cr.
ACED 136	LAW AND ETHICS IN ADDICTIONS COUNSELING	3 cr.
ACED 137	ADDICTIONS AND MENTAL ILLNESS	3 cr.
ACED 138	PREVENTION AND EDUCATION IN THE COMMUNITY	3 cr.
ACED 160	PHARMACOLOGY OF DRUGS OF ABUSE	3 cr.
ACED 164	ADOLESCENT ADDICTION ASSESSMENT & TREATMENT	3 cr.
ACED 170	AIR- AND BLOOD-BORNE PATHOGENS	2 cr.
ACED 201	THEORIES OF COUNSELING *	3 cr.
ACED 202	MULTI-CULTURAL ADDICTIONS COUNSELING	3 cr.
ACED 203	CASE MANAGEMENT IN ADDICTION MEDICINE	3 cr.
ACED 205	ADVANCED TECHNIQUES FOR ADDICTION COUNSEL	3 cr.
ACED 210	FIELD PLACEMENT I	6 cr.
or ACED 211	FIELD PLACEMENT II	6 cr.

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^{*}For non-majors also.

Summer Quarter (Optional)

ACED 132	INTRODUCTION TO COUNSELING FAMILY MEMBERS	3 cr.
ACED 136	LAW AND ETHICS IN ADDICTIONS COUNSELING	3 cr.
ACED 170	AIR- AND BLOOD-BORNE PATHOGENS	2 cr.

Total Required Credits: 90-93

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Addiction Counselor Education (Transfer)

Addiction counselors work with families and individuals of all ages who are experiencing problems with addictive behaviors. Counselors may work as members of treatment teams in inpatient or outpatient settings, with schools, or in businesses. They provide group, individual, and couples therapy as well as assessments and interventions. Addiction counselors also work as liaisons for their clients to judicial systems, schools, state services, and communities. Counselors may serve as educators in their communities, acquainting community members with treatment options and prevention strategies for the community. Please contact the Addiction Counselor Education Department (ACED) program advisor for current Washington State certification requirements.

Addiction Counselor Education (AA)

Students who earn Clark College's Associate in Arts degree qualify to transfer to most Washington colleges and universities with junior standing. Lower-division course requirements will vary depending on the transfer institution. Contact an advisor at the transfer institution to determine required coursework as soon as possible.

General Education Requirements

Communication Skills (10 credits required)

ENGL& 101	ENGLISH COMPOSITION I	5 cr.
Quantitative Ski	lls (5 credits required)	
Health & Physica	al Education (3 credits required)	
Oral Communica	ation (5 credits required)	
Humanities (15	credits required)	
Social Sciences ((15 credits required)	
PSYC& 100	GENERAL PSYCHOLOGY	5 cr.
Natural Sciences	s (15 credits required)	
Must include a la	ıb science	
Specified Ele	ectives	
ACED 101	SURVEY OF ADDICTIONOLOGY *	3 cr.
PSYC& 200	LIFESPAN PSYCHOLOGY	5 cr.
Additional Spec	ified Electives	4 cr.
Major Area l	Requirements	
ACED 122	INTRODUCTION TO ADDICTIONS COUNSELING SKILLS	3 cr.
ACED 125	GROUP COUNSELING IN ADDICTIONS	3 cr.
ACED 136	LAW AND ETHICS IN ADDICTIONS COUNSELING	3 cr.

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^{*}For non-majors also.

ACED 160	PHARMACOLOGY OF DRUGS OF ABUSE	3 cr.
ACED 201	THEORIES OF COUNSELING	3 cr.
	T : 15 : 16	1:-

Total Required Credits: 90

Refer to the Degree and Certificate Requirements section in the Clark College Catalog to identify the courses needed to satisfy the general education requirements.

Agriculture-Horticulture

The degrees and certificates for Agriculture-Horticulture have been inactivated as of March 31, 2011. As of this date, Clark College is not accepting new degree or certificate seeking students within Agriculture-Horticulture. If you are a student who was enrolled at Clark College and registered your intent of completing an Agriculture-Horticulture degree or certificate with Registration as of Fall Quarter 2008 and prior to April 15, 2011, please see Advising or the STEM Dean for current teach-out class offerings.

Degree inactivated as of March 31, 2011. (AA)

Art (Transfer)

The Clark College Art Department offers many classes to help students prepare for advanced studies at a four-year institution, enter an art profession directly, or simply enrich their spirit. Clark's Art faculty is composed of a complementary blend of highly qualified instructors possessing advanced degrees, as well as recognized working professionals who bring with them a practical knowledge of the art marketplace.

It is imperative that students planning to transfer to a college, university or art school and seek a B.A. or B.F.A. in a design-related field see an Art Department faculty member as early as possible to plan an individualized program. Call 360-992-2370 or 360-992-2639 for an appointment.

General - Art (suggested) (AA)

This is a suggested program for the first two years of major study for a general Art degree. Lower-division course requirements will vary depending on the transfer institution.

Contact the transfer institution to determine required coursework as early as possible. Many transfer institutions require foreign language.

General Education Requirements

Communication Skills (10 credits required)

ENGL& 101	ENGLISH COMPOSITION I	5 cr.
ENGL& 102	ENGLISH COMPOSITION II	5 cr.
-	lls (5 credits required)	
MATH& 107	MATH IN SOCIETY *	5 cr.
-	al Education (3 credits required)	
HPE 258	FITNESS-WELLNESS	3 cr.
or HPE 266	MIND BODY HEALTH	3 cr.
-	ation (5 credits required)	
CMST& 230	SMALL GROUP COMMUNICATION **	5 cr.

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^{*} For non-majors also.

Humanities (15 credits required) ***, ****

Natural Science	(15 crodits required)	
From at least the	ree different departments.	
Social Sciences (15 credits required)	
or ART 223	ART IN THE TWENTIETH CENTURY	5 cr.
or ART 222	ART HISTORY: BAROQUE-MODERN	5 cr.
ART 221	ART HISTORY: MEDIEVAL-RENAISSANCE	5 cr.

Natural Sciences (15 credits required)

From at least two different departments and must include a lab science.

Pre-Major Program Requirements

ART 103	DRAWING I	3 cr.
ART 110	CREATIVITY AND CONCEPT	3 cr.
ART 115	TWO-DIMENSIONAL DESIGN	4 cr.
ART 116	COLOR THEORY AND DESIGN	4 cr.
ART 117	THREE-DIMENSIONAL DESIGN	4 cr.
or ART 118	TIME-BASED ART AND DESIGN	3 cr.
ART 203	THE HUMAN FIGURE I	4 cr.
ART Elective	5-7 cr.	

Total Required Credits: 90

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General - Art, Photography Concentration (suggested) (AA)

This is a suggested program for the first two years of major study in Art with a concentration in Photography. Lower-division course requirements will vary depending on the transfer institution. Contact an advisor at the transfer institution to determine required coursework as early as possible.

General Education Requirements

Communication Skills (10 credits required)

ENGL& 101	ENGLISH COMPOSITION I	5 cr.
ENGL& 102	ENGLISH COMPOSITION II	5 cr.
-	lls (5 credits required)	
MATH& 107	MATH IN SOCIETY	5 cr.
	al Education (3 credits required)	
HPE 258	FITNESS-WELLNESS	3 cr.
or HPE 266	MIND BODY HEALTH	3 cr.
	ation (5 credits required)	
CMST& 230	SMALL GROUP COMMUNICATION *	5 cr.

^{*}Recommended

^{**}CMST& 230 is recommended and can be used for a Social Science elective.

^{***}Complete a five credit A-list course from a department other than Art.

^{****}Five credits of Studio Art from pre-major requirements can be applied.

Humanities (15 credits required) **

	ercans required,	
ART 140	PHOTOGRAPHY I	4 cr.
ART 223	ART IN THE TWENTIETH CENTURY	5 cr.
Social Sciences	(15 credits required)	
From at least th	nree different departments.	
Natural Science	es (15 credits required)	
From at least tv	wo different departments and must include a lab science.	
Pro-Major F	Requirement	
ART 103	DRAWING I	3 cr.
ART 115	TWO-DIMENSIONAL DESIGN	4 cr.
ART 116	COLOR THEORY AND DESIGN	4 cr.
ART 141	PHOTOGRAPHY II	4 cr.
ART 146	DIGITAL PHOTOGRAPHY II	4 cr.
CGT 101	PHOTOSHOP RASTER GRAPHICS	4 cr.
Recommen	ded Electives	
ART 104	DRAWING II	3 cr.
ART 118	TIME-BASED ART AND DESIGN	3 cr.
ART 142	PHOTOGRAPHY III	4 cr.
ART 145	DIGITAL PHOTOGRAPHY I	3 cr.
ART 208	DIGITAL ILLUSTRATION	4 cr.
ART 290	SPECIAL PROJECTS	1-6 cr.
CGT 100	GRAPHIC DESIGN TECHNOLOGY I	4 cr.

Total Required Credits: 90 Minimum

3 cr.

4 cr.

1-3 cr.

SOCIAL MEDIA EXPLORATION

WEB VIDEO PRODUCTION

COLLEGE NEWSPAPER

Associate in Fine Arts, Graphic Design Concentration (AFA)

The Art Department is offering this specialized, two-year degree intended to prepare students wishing to transfer into competitive-entry design programs at baccalaureate institutions. The degree may also well serve those looking to acquire a solid foundation in graphic design with the goal of seeking employment opportunities with just the associate degree, including those already holding a degree in another field who are looking to change careers.

Completion of the following recommended courses does not guarantee admission as an art major with junior standing at the transfer institution. A competitive GPA and a quality portfolio are also essential. Due to the AFA degree's heavy emphasis on art and graphic design foundation courses, upon acceptance, the AFA student should expect to complete further general education courses at the baccalaureate institution in addition to the major area coursework. Students are strongly advised to select and plan courses in collaboration with their Art Department advisor, and to contact the intended transfer institution to determine required coursework as early as possible.

CGT 106

CGT 201

JOUR 121

^{*}CMST& 230 is recommended and can be used for a Social Science elective.

^{**}Complete a five credit A-list course from a department other than Art.

Also, please see the **Computer Graphics Technology (CGT)** department's career and technical degrees in Web and Graphic Design, including an Associate of Applied Technology in Web and Graphic Design, the Graphic Design Certificate of Proficiency or the Web Design Certificate of Proficiency.

General Education Requirements

Communication	Skills (5 credits required)	
ENGL& 101	ENGLISH COMPOSITION I	5 cr.
Quantitative Ski	lls (5 credits required)	
MATH& 107	MATH IN SOCIETY Recommended	5 cr.
Health & Physica	al Education (3 credits required)	
HPE 258	FITNESS-WELLNESS	3 cr.
or HPE 266	MIND BODY HEALTH Recommended	3 cr.
Humanities (5 cr	redits required)	
Humanities * (Lis	st A ONLY, must NOT be a major requirement)	
Social Sciences (5 credits required) (must NOT be a part of a major requirement)	
CMST& 230	SMALL GROUP COMMUNICATION Recommended	5 cr.
Natural Sciences	s (5 credits required)	
(must be a lab so	cience)	
Pre-Major Pr	rogram Requirements	
ART 103	DRAWING I	3 cr.
ART 110	CREATIVITY AND CONCEPT	3 cr.
ART 115	TWO-DIMENSIONAL DESIGN	4 cr.
ART 116	COLOR THEORY AND DESIGN	4 cr.
ART 118	TIME-BASED ART AND DESIGN	3 cr.
ART 145	DIGITAL PHOTOGRAPHY I	3 cr.
ART 172	GRAPHIC DESIGN EXPLORATION	4 cr.
ART 173	GRAPHIC DESIGN STUDIO I	4 cr.
ART 174	TYPOGRAPHY	4 cr.
ART 203	THE HUMAN FIGURE I	4 cr.
ART 208	DIGITAL ILLUSTRATION	4 cr.
ART 215	PORTFOLIO DEVELOPMENT	3 cr.
ART 223	ART IN THE TWENTIETH CENTURY	5 cr.
ART 271	PUBLICATION DESIGN	4 cr.
ART 273	GRAPHIC DESIGN STUDIO II	4 cr.
ART 274	GRAPHIC DESIGN STUDIO III	4 cr.
CGT 100	GRAPHIC DESIGN TECHNOLOGY I	4 cr.

GRAPHIC DESIGN TECHNOLOGY II

CGT 200

4 cr.

or CGT 240

CAPSTONE PRACTICUM

3 cr.

Total Required Credits: 90 Minimum

*World Languages 121, 122 or 123 recommended if you do not have 2 years of high school foreign language or equivalent.

Automotive Technology

The Automotive Technology program prepares students for maintenance and repair employment opportunities in the automotive industry. Today's automotive technicians need proficient mechanical skills plus a thorough understanding of automotive computer and electrical systems.

Clark College's program utilizes current advanced diagnostic equipment and techniques to prepare students for employment in this increasingly technical industry. Program benefits are as follows:

- Students receive comprehensive instruction consisting of both classroom theory and "real world" shop lab experience in all major automotive systems.
- Learning emphasizes safety, proper work habits, human relations skills, and technical abilities necessary for employment.
- Graduates demonstrate in depth knowledge and skills through demonstrated evaluations that meet required NATEF (National Automotive Technicians Education Foundation) competencies.
- Graduates will be trained for successful completion of standard certification exams and NATEF exams.
- Clark College is a National Automotive Technicians Education Foundation (NATEF) certified institution that has been training automotive technicians for over 50 years.

Our Toyota Partnership

Clark College is an award-winning Toyota Technical Education Network (T-TEN) training center. Besides being the basis for Clark's Automotive Technology training curriculum, Toyota's affiliation offers additional options for students to specialize in Toyota vehicle servicing.

Note: The numbers in parentheses on the following curricula represent the course numbers included in the Toyota Certified Technician Program. A student completing the T-TEN Program will receive TCTP credit for the Clark College AUTO courses also identified with a Toyota course number.

Students must complete all Major Area Requirements with a minimum grade of "C" or better in order to successfully complete the program and earn the award.

Refer to the Degree & Certificate Requirements Section in the Clark College Catalog to identify the courses needed to satisfy the General Education Requirements.

Basic Automotive Technician Skills (CP)

General Education Requirements

Communication Skills (3 credits required)

Computational Skills (3 credits required)

Human Relations (3 credits required)

Major Area Requirements

AUTO 110	AUTOMOTIVE BASICS (TCTP 623, 553)	15 cr.
or AUTO 108	SAFETY, BASICS AND ELECTRIC (TCTP 623)	8 cr.
and AUTO 109	BRAKES (TCTP 552)	7 cr.
AUTO 120	CHASSIS SYSTEMS (TCTP 453, 652)	15 cr.
or AUTO 141	CHASSIS SYSTEMS (TCTP 453, 553, 652)	1-15 cr.
AUTO 130	ENGINE PERFORMANCE (TCTP 852)	15 cr.
or AUTO 142	ENGINE PERFORMANCE (TCTP 852)	1-15 cr.

Total Required Credits: 54

Advanced Automotive Technician Skills (CP)

General Education Requirement

Communication Skills (3 credits required)

Computational Skills (3 credits required)

Human Relations (3 credits required)

Major Area Requirements

AUTO 210	DRIVE TRAINS AND ENGINES (TCTP 302)	1-15 cr.
or AUTO 240	MANUAL TRANSMISSIONS, AXLES AND ENGINES (TCTP 302)	1-15 cr.
AUTO 220	ADVANCED POWER TRAINS (TCTP 274)	15 cr.
or AUTO 241	AUTOMATIC TRANSMISSIONS AND ADVANCED ELECTRICAL (TCT	P 274)1-15 cr.
AUTO 230	ADVANCED CHASSIS SYSTEMS (TCTP 752, 256)	15 cr.
or AUTO 242	A/C AND ADVANCED CHASSIS SYSTEMS (TCTP 752, 256)	1-15 cr.

Total Required Credits: 54

Automotive Technology (AAS)

General Education Requirements

Communication Skills (6 credits required)

Health & Physical Education (3 credits required)

Computational Skills (3 credits required)

Human Relations (3 credits required)

Humanities (3 credits required)

Social Sciences (3 credits required)

Natural Sciences (3 credits required)

Major Area Requirements

AUTO 110	AUTOMOTIVE BASICS (TCTP 623, 553)	15 cr.
or AUTO 108	SAFETY, BASICS AND ELECTRIC (TCTP 623)	8 cr.
and AUTO 109	BRAKES (TCTP 552)	7 cr.

AUTO 120	CHASSIS SYSTEMS (TCTP 453, 652)	15 cr.
or AUTO 141	CHASSIS SYSTEMS (TCTP 453, 553, 652)	1-15 cr.
AUTO 130	ENGINE PERFORMANCE (TCTP 852)	15 cr.
or AUTO 142	ENGINE PERFORMANCE (TCTP 852)	1-15 cr.
AUTO 199	COOPERATIVE WORK EXPERIENCE	1-5 cr.
AUTO 210	DRIVE TRAINS AND ENGINES (TCTP 302)	1-15 cr.
or AUTO 240	MANUAL TRANSMISSIONS, AXLES AND ENGINES (TCTP 302)	1-15 cr.
AUTO 220	ADVANCED POWER TRAINS (TCTP 274)	15 cr.
or AUTO 241	AUTOMATIC TRANSMISSIONS AND ADVANCED ELECTRICAL	1-15 cr.
AUTO 230	ADVANCED CHASSIS SYSTEMS (TCTP 752, 256)	15 cr.
or AUTO 242	A/C AND ADVANCED CHASSIS SYSTEMS (TCTP 752, 256)	1-15 cr.
WELD 105	RELATED WELDING FOR AUTOMOTIVE	3 cr.

Total Required Credits: 115-122

Automotive Technology (AAT)

General Education Requirements

Communication Skills (5 credits required)

Computational Skills (5 credits required)

Human Relations (5 credits required)

Major Area Requirements

AUTO 110	AUTOMOTIVE BASICS (TCTP 623, 553)	15 cr.
AUTO 120	CHASSIS SYSTEMS (TCTP 453, 652)	15 cr.
AUTO 130	ENGINE PERFORMANCE (TCTP 852)	15 cr.
AUTO 199	COOPERATIVE WORK EXPERIENCE	1-5 cr.
AUTO 210	DRIVE TRAINS AND ENGINES (TCTP 302)	1-15 cr.
AUTO 220	ADVANCED POWER TRAINS (TCTP 274)	15 cr.
AUTO 230	ADVANCED CHASSIS SYSTEMS (TCTP 752, 256)	15 cr.
WELD 105	RELATED WELDING FOR AUTOMOTIVE	3 cr.

Total Required Credits: 109-113

Toyota Technology (AAS)

The Toyota curriculum is inclusive within the Automotive Technology curriculum. An additional Toyota dealer cooperative work experience or internship is also necessary to complete the Toyota program.

General Education Requirements

Communication Skills (6 credits required)

Health & Physical Education (3 credits required)

Computational Skills (3 credits required)

Human Relations (3 credits required)

Humanities (3 credits required)				
Social Sciences	Social Sciences (3 credits required)			
Natural Science	s (3 credits required)			
Major Area	Requirements			
AUTO 110	AUTOMOTIVE BASICS (TCTP 623, 553)	15 cr.		
AUTO 120	CHASSIS SYSTEMS (TCTP 453, 652)	15 cr.		
AUTO 130	ENGINE PERFORMANCE (TCTP 852)	15 cr.		
AUTO 199	COOPERATIVE WORK EXPERIENCE	1-5 cr.		
AUTO 210	DRIVE TRAINS AND ENGINES (TCTP 302)	1-15 cr.		
AUTO 220	ADVANCED POWER TRAINS (TCTP 274)	15 cr.		
AUTO 230	ADVANCED CHASSIS SYSTEMS (TCTP 752, 256)	15 cr.		
WELD 105	RELATED WELDING FOR AUTOMOTIVE	3 cr.		
************	Tot	tal Required Credits: 115-122		

Bioengineering & Chemical Pre-Engineering (Transfer)

Chemical engineers are in the forefront of efforts to make Planet Earth a cleaner and healthier place to live, from finding better ways to clean up toxic spills to developing sustainable biofuels. Chemical engineers are in great demand in many industries including: pharmaceuticals, food, chemicals, energy, and all sorts of manufacturing. State environmental health and safety agencies also employ many chemical engineers.

Bioengineering is one of the fastest-growing disciplines. Bioengineers are focused on advancing human health and promoting environmental sustainability. Bioengineers apply quantitative solutions to solve diverse multidisciplinary problems.

BioEngineering & Chemical Pre-Engineering (AST2)

The following is a degree program designed by a consortium of two-year and four-year colleges in Washington. Students should be aware that baccalaureate institutions may have slightly different requirements for these degrees, and students should consult the transfer institution for exact questions.

Students should complete the entirety of any science sequence at the same school for best transferability. These degrees are not DTA degrees, and there are some general education requirements that students will need to finish upon transfer.

Though this degree does not require such, Clark College students should know that the standard Clark AST degree path has this difference from the Articulated Degree defined below:

• Clark requires 3 credits of Health-Physical Education coursework.

Students must also meet the residency requirements as established by Clark. While Clark College has approved offering the degree below, Clark students should keep these requirements in mind should their transfer pathways change.

Students completing this Associate of Science will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the direct transfer associate degree and will be given junior status by the receiving institution.

It is critical that you work with an Engineering faculty advisor to ensure your program will give you the maximum benefit when you transfer.

For more information, please visit the Major Related Programs/Articulated Degrees section of this catalog for more information.

Generic Requirements

A. Basic Requirements

1. Communication Skills 5 cr.

2. Mathematics 10 cr.

Two courses at or above introductory calculus level. Third-quarter calculus or approved statistics course: 5 quarter credits chosen with the help of an Engineering faculty advisor based on the requirements of the specific discipline at the baccalaureate institution the student plans to attend.

3. Physics 15 cr.

Calculus-based or non-calculus based sequence including laboratory. Students should be advised that some baccalaureate programs require physics with calculus.

4. Chemistry with Laboratory 5 cr.

B. Distribution Requirements

1. Humanities/Fine Arts/English & Social Sciences 15 cr.

C. Electives

1. Elective Courses

The remaining quarter credits should be planned with the help of an advisor based on the requirements of the specific discipline at the baccalaureate institution the student selects to attend. For Engineering disciplines, these credits should include a design component consistent with ABET accreditation standards, as approved by the Engineering faculty advisor.

Articulated Degree Requirements

A. Basic Requirements

1. English Composition 5 cr.

2. Mathematics

Calculus I, II, III - 15 credits

Differential Equations - 5 credits

3. Physics

Engineering Physics 1, 2, 3 + labs - 15 to 18 credits

4. Chemistry with Laboratory

General Chemistry 1, 2, 3 + labs - 15-18 credits

Organic Chemistry 1 + lab - 4-6 credits

Organic Chemistry 2 + lab OR

Biology for Science Majors + lab

B. Distribution Requirements

1. Humanities/Fine Arts/English & Social Sciences

15 cr.

Minimum 15 quarter credits:

Minimum 5 credits in Humanities, minimum 5 credits in Social Science, plus an additional 5 credits in either Humanities or Social Science for a total of 15 credits.

C. Electives

1. Elective Courses 14-15 cr.

Engineering (14-15 credits)

Select 3 electives as appropriate for intended major and intended baccalaureate institution. Requirements vary by school and program. See an Engineering faculty advisor regarding proper selection.

- Computer Programming- 4-5 credits
- Linear Algebra
- Calculus IV (Advanced or Multi-variable Calculus)
- Technical Writing
- Electrical Circuits
- Statics
- Thermodynamics
- Chemical Process, Principles and Calculations
- Biology for Science Majors I + labs
- Biology for Science Majors II + labs
- Organic Chemistry II + labs

Clark College Equivalents

A. Basic Requirements

1. Communication Skills

ENGLISH COMPOSITION I	5 cr.
CALCULUS I	5 cr.
CALCULUS II	5 cr.
CALCULUS III	5 cr.
DIFFERENTIAL EQUATIONS	5 cr.
ENGINEERING PHYSICS	5 cr.
ENGINEERING PHYSICS	5 cr.
ENGINEERING PHYSICS	5 cr.
boratory	
GENERAL CHEMISTRY I	4 cr.
GENERAL CHEMISTRY LABORATORY I	1 cr.
GENERAL CHEMISTRY II	4 cr.
GENERAL CHEMISTRY LABORATORY II	1 cr.
GENERAL CHEMISTRY III	4 cr.
GENERAL CHEMISTRY LABORATORY III	2 cr.
ORGANIC CHEMISTRY I	4 cr.
ORGANIC CHEMISTRY LABORATORY I	1 cr.
ORGANIC CHEMISTRY II	4 cr.
ORGANIC CHEMISTRY LABORATORY II	1 cr.
MAJORS ECOLOGY/EVOLUTION	5 cr.
	CALCULUS II CALCULUS III CALCULUS III DIFFERENTIAL EQUATIONS ENGINEERING PHYSICS ENGINEERING PHYSICS ENGINEERING PHYSICS boratory GENERAL CHEMISTRY I GENERAL CHEMISTRY LABORATORY I GENERAL CHEMISTRY LABORATORY II GENERAL CHEMISTRY LABORATORY III GENERAL CHEMISTRY LABORATORY III GENERAL CHEMISTRY LABORATORY III ORGANIC CHEMISTRY III ORGANIC CHEMISTRY III ORGANIC CHEMISTRY LABORATORY III

B. Distribution Requirements

1. Humanities/Fine Arts/English & Social Sciences

A course in Economics is recommended (ECON& 201 or 202).

PHIL& 106 is strongly recommended as the Humanities course.

C. Electives

1. Elective Courses

Other electives as advised dependent on transfer institution.

MATH& 254 CALC

CALCULUS IV Required

5 cr.

Notes

A. Basic Requirements

2. Mathematics

Clark requires concurrent enrollment of completion in MATH& 254 when taking MATH 221.

MATH 103 and MATH 111 are required prerequisites for MATH& 151 that may be needed if calculus placement is not met via COMPASS.

3. Physics

Clark requires concurrent enrollment in PHYS 094, 095, and 096.

B. Distribution Requirements

1. Humanities

Courses taken must come from the current ICRC distribution list in order to count as General Education or General University Requirements (GER's/GUR's) at the receiving institution. Additional general educational requirements, cultural diversity requirements, and foreign language requirements, as required by the receiving institution, must be met prior to the completion of a baccalaureate degree.

Total Required Credits: 90-103

Biological Sciences (Transfer)

Biological sciences are the basic foundation for many professions. Upper-division requirements at the transfer institution will determine the area of specialization. Students should work with a faculty advisor to develop a specific program.

Professional Opportunities

Following completion of a Bachelor of Arts or Science Degree at a four-year institution of the student's choice, several avenues of employment or advancement are open. A few of these are:

- Food Processing
- Commercial Fisheries
- Graduate School
- State and Federal Wildlife agencies
- Science teaching at elementary or secondary level
- Environmental Sciences
- Transfer into professional health programs (medical, dental, pharmacy, physical therapy or optometry)
- Veterinary/Animal Science

Clark's Biological Sciences majors have had excellent success in finding placement in graduate programs, health science programs, and professional areas. Clark College offers the first two years of most Biological Sciences majors: Biology,

Botany, Forestry, Genetics, Marine Biology, Microbiology, Wildlife, and Zoology. Special emphasis is placed on small class size, individual instruction, field experiences, and undergraduate research opportunities. There is good exchange between the support areas of Chemistry, Geology, and Physics to aid in developing relevant courses.

Biological Sciences (AST1)

This is a suggested program for the first two years of major study in Biological Sciences. Lower-division course requirements will vary depending on the transfer institution. Contact an advisor at the transfer institution to determine required coursework as early as possible.

General Education Requirements

Communication S	kills (5 credits required)	
ENGL& 101	ENGLISH COMPOSITION I	5 cr.
Quantitative Skills	s (10 credits required)	
MATH& 151	CALCULUS I	5 cr.
MATH& 152	CALCULUS II	5 cr.
Health & Physical	Education (3 credits required)	
Humanities & Soc	ial Sciences (15 credits required)	
CMST& 220	PUBLIC SPEAKING	5 cr.
or CMST& 230	SMALL GROUP COMMUNICATION	5 cr.
or CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.
Humanities and S	ocial Sciences Requirements**	10 cr.
Pre-Major Pro	ogram Requirements	
BIOL& 221	MAJORS ECOLOGY/EVOLUTION	5 cr.
BIOL& 222	MAJORS CELL/MOLECULAR	5 cr.
BIOL& 223	MAJORS ORGANISMAL PHYS	5 cr.
CHEM& 141	GENERAL CHEMISTRY I	4 cr.
CHEM& 142	GENERAL CHEMISTRY II	4 cr.
CHEM& 143	GENERAL CHEMISTRY III	4 cr.
CHEM& 151	GENERAL CHEMISTRY LABORATORY I	1 cr.
CHEM& 152	GENERAL CHEMISTRY LABORATORY II	1 cr.
CHEM& 153	GENERAL CHEMISTRY LABORATORY III	2 cr.
MATH& 153	CALCULUS III	5 cr.
or MATH 203	DESCRIPTIVE STATISTICS	3 cr.
and MATH 204	INFERENTIAL STATISTICS	3 cr.
PHYS& 121	GENERAL PHYSICS I	5 cr.
PHYS& 122	GENERAL PHYSICS II	5 cr.
PHYS& 123	GENERAL PHYSICS III	5 cr.
Recommende	ed Science and Composition Electives	
CHEM& 241	ORGANIC CHEMISTRY I	4 cr.

	ANIC CHEMISTRY III	4 cr.
CHEM& 251 ORG/	ANIC CHEMISTRY LABORATORY I	1 cr.
CHEM& 252 ORG/	ANIC CHEMISTRY LABORATORY II	1 cr.
CHEM& 253 ORG/	ANIC CHEMISTRY LABORATORY III	2 cr.
ENGL& 102 ENGL	LISH COMPOSITION II *	5 cr.
	ING ABOUT THE SCIENCES *	5 cr.

BIOL 101	ENVIRONMENTAL BIOLOGY	5 cr.
BIOL 208	FIELD STUDIES IN BIOLOGY	1-10 cr.
or BIOL 224	FLOWERING PLANTS OF THE PACIFIC NORTHWEST	5 cr.
BIOL 139	INTRODUCTION TO WILDLIFE	3 cr.
BIOL 140	MAMMALS OF THE NORTHWEST *	3 cr.
or BIOL 141	BIRDS OF THE PACIFIC NORTHWEST	3 cr.
or BIOL 143	INTRODUCTION TO FORESTRY	3 cr.
BIOL 145	REPTILES & AMPHIBIANS OF THE PACIFIC NW	3 cr.
BIOL 146	SURVEY OF BIODIVERSITY	2 cr.

Total Required Credits: 90

Biology Education (AST1)

The following is a degree program designed by a consortium of two-year and four-year colleges in Washington. Students should be aware that baccalaureate institutions may have slightly different requirements for these degrees, and students should consult the transfer institution for exact questions.

Students should complete the entirety of any science sequence at the same school for best transferability. These degrees are not DTA degrees, and there are some general education requirements that students will need to finish upon transfer.

Though this degree does not require such, Clark College students should know that the standard Clark AS degree path has this difference from the Articulated Degree defined below:

• Clark requires 3 credits of Health-Physical Education coursework.

Students must also meet the residency requirements as established by Clark. While Clark College has approved offering the degree below, Clark students should keep these requirements in mind should their transfer pathways change.

Students completing this Associate of Science will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the direct transfer associate degree and will be given junior status by the receiving institution.

Students are responsible for researching and preparing for specific major requirements of baccalaureate institutions as early as possible prior to transferring.

For more information, please visit the Major Related Programs/Articulated Degrees section of this catalog.

^{*} Check with chosen 4-year school.

^{**}Minimum of five (5) credits of coursework in both Humanities and Social Sciences with the additional five (5) credits from either Humanities or Social Sciences.

Generic Requirements

A. Basic Requirements

1. Communication Skills	5 cr.
2. Quantitative/Symbolic Reasoning Requirement	5 cr.

Intermediate algebra proficiency is required.

B. Distribution Requirements

1. Humanities/Fine Arts/English & Social Sciences

15 cr.

15 credits of humanities and social science with at least five credits taken from each. Three different subjects required. No more than 5 credits of performance classes are allowed.

2. Science Pre-major Requirement

- Chemistry for science majors sequence (15 quarter credits)
- Third guarter calculus or approved statistics course (5 guarter credits)
- Biology for science majors or physics (calculus or non-calculus based) (15 quarter credits)
- Additional requirements: 10 15 quarter credits in physics, geology, organic chemistry, biology, or mathematics, consisting of courses normally taken for science majors (not general education), preferably in a 2- or 3-quarter sequence.

C. Electives

Additional college-level courses so that total earned is at least 90 credits. May include prerequisites for major courses (e.g. pre-calculus), additional major coursework, or specific general education or other university requirements, as approved by the advisor.

Articulated Degree Requirements

A. Basic Requirements

1. English Composition	5 cr.
2. Calculus	10 cr.

Intermediate algebra proficiency is required.

B. Distribution Requirements

1. Humanities/Fine Arts/English & Social Sciences

15 cr.

5 quarter credits Introductory Speech

5 quarter credits General Psychology

2. Science Pre-major Requirement

- 15 quarter credits General Chemistry
- 15 quarter credits Organic Chemistry
- 15 quarter credits of majors level biology
- 5 quarter credits statistics

Clark College Equivalents

A. Basic Requirements

1. Communication Skills

ENGL& 101 ENGLISH COMPOSITION I 5 cr.

2. Quantitative/Symbolic Reasoning MATH& 151 CALCULUS I 5 cr. MATH& 152 **CALCULUS II** 5 cr. **B.** Distribution Requirements 1. Humanities/Fine Arts/English & Social Sciences CMST& 220 **PUBLIC SPEAKING** 5 cr. PSYC& 100 GENERAL PSYCHOLOGY 5 cr. Plus 5 additional HUM or SS credits 5 cr. 2. Science Pre-major Requirement **CHEM& 141** GENERAL CHEMISTRY I 4 cr. **CHEM& 141** GENERAL CHEMISTRY I 4 cr. CHEM& 143 GENERAL CHEMISTRY III 4 cr. CHEM& 151 GENERAL CHEMISTRY LABORATORY I 1 cr. CHEM& 152 GENERAL CHEMISTRY LABORATORY II 1 cr. **CHEM& 153** GENERAL CHEMISTRY LABORATORY III 2 cr. CHEM& 241 ORGANIC CHEMISTRY I 4 cr. CHEM& 242 ORGANIC CHEMISTRY II 4 cr. CHEM& 243 ORGANIC CHEMISTRY III 4 cr. CHEM& 251 ORGANIC CHEMISTRY LABORATORY I 1 cr. CHEM& 252 ORGANIC CHEMISTRY LABORATORY II 1 cr. CHEM& 253 ORGANIC CHEMISTRY LABORATORY III 2 cr. BIOL& 221 MAJORS ECOLOGY/EVOLUTION 5 cr. **BIOL& 222** MAJORS CELL/MOLECULAR 5 cr. **BIOL& 223** MAJORS ORGANISMAL PHYS 5 cr. MATH 203 **DESCRIPTIVE STATISTICS** 3 cr. and MATH 204 INFERENTIAL STATISTICS 3 cr. C. Electives 1. Elective Courses **FDUC& 201** INTRODUCTION TO EDUCATION Recommended 3 cr. and EDUC 210 INTRODUCTORY FIELD EXPERIENCE Recommended 3 cr. PHYS& 221 **ENGINEERING PHYSICS Recommended** 5 cr. and PHYS& 222 ENGINEERING PHYSICS Recommended 5 cr. **ENGINEERING PHYSICS Recommended** and PHYS& 223 5 cr. Notes A. Basic Requirements 2. Quantitative/Symbolic Reasoning Pre-Calculus courses do not meet this requirement.

B. Distribution Requirements

1. Humanities/Fine Arts/English & Social Sciences

Courses in Humanities/Social Science must come from the current ICRC distribution list in order to count as General Education or General University Requirements (GERs/GURs) at the receiving institution. Additional general educational requirements, cultural diversity requirements, and foreign language requirements, as required by the transfer institution, must be met prior to the completion of a baccalaureate degree.

C. Electives

1. Elective Courses

A maximum of five (5) quarter credits of "gray area" courses will be accepted in the remaining credits category.

Students should consult with baccalaureate institutions on the Physics courses--the addition of these courses may bring the degree total to 105 credits.

Total Required Credits: 105

Biology DTA/MRP (AA)

This pathway is applicable to students planning to prepare for upper-division bachelor's degree majors in Biology. Many students transfer to baccalaureate institutions after completing the Associate Degree Direct Transfer Agreement (DTA); this pathway does not alter that agreement or the possibility that students may continue to follow this path. This Biology MRP streamlines and facilitates preparation for upper-division coursework in Biology across the state.

This document represents an agreement between the following baccalaureate institutions offering bachelor's degrees in Biology or a related field and the community and technical college system. Baccalaureate institutions party to this agreement include: Central Washington University; Eastern Washington University; The Evergreen State College; University of Washington Seattle; Washington State University Pullman; Western Washington University; Saint Martin's University; Seattle University; and Whitworth University.

Where the degree below allows for choice in courses, students are urged to contact potential transfer institutions to ensure that the courses chosen are best for the pathway.

Though this degree does not require such, Clark College students should know that the standard Clark AA degree path has these differences from the MRP defined below:

- Clark requires 3 credits of Health-Physical Education coursework, and
- As of Fall 2011, Clark requires a course in Oral Communication, and
- Clark's Social Science distribution requirement stipulates that students take courses from at least three different departments.

Students must also meet the residency requirements as established by Clark. While Clark College has approved offering the degree below, Clark students should keep these requirements in mind should their transfer pathways change.

Students are responsible for researching and preparing for specific major requirements of baccalaureate institutions as early as possible prior to transferring.

For more information, please visit the Major Related Programs/Articulated Degrees section of this catalog.

Generic DTA Requirement

A. Basic Requirements

1. Communications Skills

10 cr.

2. Quantitative/Sy	ymbolic Reasoning Requirement	5 cr.
Intermediate alge	ebra proficiency is required.	
B. Distribution Re	quirements	
1. Humanities		15 cr.
2. Social Sciences		15 cr.
3. Natural Science	es (minimum of 15 cr.)	15 cr.
MRP Require	ments	
A. Basic Requirem		
1. English Compo	sition	10 cr.
2. Mathematics		5 cr.
Calculus I		
B. Distribution Re	quirements	
1. Humanities		15 cr.
	ne requirements in all DTA degrees - no more than 10 credits per dis m in world languages or ASL. No more than 5 credits of performanc	•
2. Social Sciences		15 cr.
Consistent with the	ne requirements in all DTA degrees - no more than 10 credits per dis	cipline area.
3. 30 quarter cred	lits, including:	30 cr.
15 credits genera	l biology (majors level)	
15 credits genera	l chemistry (majors level)	
C. Electives		
1. 15 additional q	uarter credits	15 cr.
Clark College	Fauivalents	
A. Basic Requirem	-	
1. Communication		
ENGL& 101	ENGLISH COMPOSITION I	5 cr.
ENGL& 102	ENGLISH COMPOSITION II	5 cr.
	ymbolic Reasoning Requirement	
MATH& 151	CALCULUS I	5 cr.
B. Distribution Re		
	defined in the Clark College catalog	15 cr.
2. Social Sciences	as defined in the Clark College catalog	15 cr.
3. Natural Science		
BIOL& 221	MAJORS ECOLOGY/EVOLUTION	5 cr.
BIOL& 222	MAJORS CELL/MOLECULAR	5 cr.
BIOL& 223	MAJORS ORGANISMAL PHYS	5 cr.
CHEM& 141	GENERAL CHEMISTRY I	4 cr.

1.14 additional	quarter credits (note: Clark's chemistry sequence has 16 credits)	14 cr.
C. Electives		
CHEM& 153	GENERAL CHEMISTRY LABORATORY III	2 cr.
CHEM& 152	GENERAL CHEMISTRY LABORATORY II	1 cr.
CHEM& 151	GENERAL CHEMISTRY LABORATORY I	1 cr.
CHEM& 143	GENERAL CHEMISTRY III	4 cr.
CHEM& 142	GENERAL CHEMISTRY II	4 cr.

Notes

A. Basic Requirements

- 1. May be individualized based on baccalaureate college of choice.
- **2.** Statistics (a course that includes descriptive and inferential statistics) may substitute for Calculus I at some institutions; students are encouraged to check with the transfer institution early in their decision process to confirm requirements.
- **3.** Intermediate Algebra proficiency may be demonstrated by successful completion of a Calculus and/or Statistics course for which Intermediate Algebra is a prerequisite.

B. Distribution Requirements

- 1. In order to better prepare for successful transfer, students are encouraged to consult with the institution(s) to which they wish to transfer regarding the humanities courses that best support or may be required as prerequisites to their Biology curriculum.
- **2.** In order to better prepare for successful transfer, students are encouraged to consult with the institution(s) to which they wish to transfer regarding the social science courses that best support or may be required as prerequisites to their Biology curriculum.
- **3.** A full year sequence at a single college is the best preparation for the baccalaureate biology degree.

C. Electives

1. Electives allow students to include additional courses to prepare for the biology major based on college selection. Examples include a full year sequence of organic chemistry for majors; a full year sequence of physics for science majors; or further math at the pre-calculus level or above or statistics.

Students should check with the transfer institution prior to taking any further biology courses beyond the one-year sequence. Some colleges require all continuing biology courses be taken at the 300 level.

Total Required Credits: 90 minimum

Business Administration

The Business Administration program teaches individuals how to maintain a competitive edge in business today through theory and practical application. Whether you are intending to work for yourself or for someone else, Clark's career and technical education programs are specially designed to meet your specific needs. Clark's Business Administration graduates have found successful positions in accounting, sales and service, merchandising, and management.

Computer Training

Computers have revolutionized the business world. Clark College's business administration courses provide a solid foundation in using computers for business functions. Students receive practical, hands-on training using current

equipment and software programs. Classes are designed to closely reflect the needs of business. Computers are available for class use and individual practice.

Students must complete all specifically listed courses and Major Area Requirements with a minimum grade of "C" or better in order to successfully complete the program and earn the award.

Refer to the Degree & Certificate Requirements Section of the Clark College Catalog to identify the courses needed to satisfy the General Education Requirements.

Accounting Clerk (CP)

This program is designed to prepare the student for an entry-level position as an accounting system operator, an accounting clerk, or a bookkeeper. The student learns bookkeeping skills in both the manual and computerized environments.

General Education Requirements

BTEC 087	APPLIED OFFICE ENGLISH	3 cr.
Computational Sl	kills (3 credits required)	
MATHB065	FUNDAMENTALS OF BUSINESS MATHEMATICS	5 cr.
Human Relations	(3 credits required)	
BTEC 147	PROFESSIONAL SELF-DEVELOPMENT	2 cr.
Major Area R	equirements	
BTEC 101	BEGINNING KEYBOARDING *	1-3 cr.
or BTEC 190	REFRESHER KEYBOARDING *	1-3 cr.
BTEC 135	10-KEY CALCULATOR	1 cr.
BTEC 149	COMPUTER APPLICATIONS ESSENTIALS	3 cr.
BTEC 170	EXCEL FOR BUSINESS	3 cr.
BUS 028	BASIC ACCOUNTING PROCEDURES	3 cr.
BUS 029	BASIC ACCOUNTING PROCEDURES	3 cr.
BUS 036	ACCOUNTING APPLICATIONS	3 cr.
BUS& 101	INTRODUCTION TO BUSINESS	5 cr.
or MGMT 100	THE BUSINESS ENVIRONMENT	5 cr.
BUS 130	COMPUTERIZED ACCOUNTING	3 cr.
BUS 199	COOPERATIVE WORK EXPERIENCE	1-5 cr.

* Register for BTEC 100.

Accounting (AAS)

The completion of this two-year program prepares the graduate for entry-level employment in private or public accounting. In addition, this degree provides a solid foundation for the student who is interested in completing a four-year degree in accounting.

Total Required Credits: 46-50

General Education Requirements

Communication	Skills	(6 credits	required)
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	•	
ENGL& 101	ENGLISH COMPOSITION I	5 cr.
Health & Physical	Education (3 credits required)	
Computational S	kills (3 credits required)	
BUS 203	DESCRIPTIVE STATISTICS	3 cr.
Human Relations	(3 credits required)	
Humanities (3 cre	edits required)	
Social Sciences (3	3 credits required)	
ECON& 201	MICRO ECONOMICS	5 cr.
Natural Sciences	(3 credits required)	
Maior Area D		
	dequirements	5
ACCT& 201	PRINCIPLES OF ACCOUNTING I	5 cr.
ACCT& 202	PRINCIPLES OF ACCOUNTING II	5 cr.
ACCT& 203	PRIN OF ACCOUNTING III	5 cr.
BTEC 101	BEGINNING KEYBOARDING *	1-3 cr.
or BTEC 190	REFRESHER KEYBOARDING *	1-3 cr.
BTEC 135	10-KEY CALCULATOR	1 cr.
BTEC 150	COMPUTER BUSINESS APPLICATIONS	5 cr.
BTEC 170	EXCEL FOR BUSINESS	3 cr.
BUS& 101	INTRODUCTION TO BUSINESS	5 cr.
or MGMT 100	THE BUSINESS ENVIRONMENT	5 cr.
BUS 130	COMPUTERIZED ACCOUNTING	3 cr.
BUS& 201	BUSINESS LAW	5 cr.
ECON& 202	MACRO ECONOMICS	5 cr.
MATHB065	FUNDAMENTALS OF BUSINESS MATHEMATICS	5 cr.
	lajor Area Electives	
	credits from the following areas to reach the degree total of 90 cr	redits:
Business Adm	inistration (BUS)	

Economics (ECON)

Business Administration (CP)

• Microcomputer Applications (BTEC - 6 credit maximum)

Supervisory Management (MGMT)

This certificate is designed to provide basic training in business applications, emphasizing skills that are necessary within the business environment. Full credit for all courses completed for this certificate applies to the Business Administration Associate in Applied Science degree.

Total Required Credits: 90-91

^{*} Register for BTEC 100.

General Education Requirements

Communication	skilis (3 credits required)	
Computational SI	kills (3 credits required)	
MATHB065	FUNDAMENTALS OF BUSINESS MATHEMATICS	5 cr.
Human Relations	(3 credits required)	
CMST& 230	SMALL GROUP COMMUNICATION	5 cr.
Major Area R	equirements	
BTEC 100	KEYBOARDING	1-3 cr.
BTEC 147	PROFESSIONAL SELF-DEVELOPMENT	2 cr.
BTEC 150	COMPUTER BUSINESS APPLICATIONS	5 cr.
BUS 028	BASIC ACCOUNTING PROCEDURES	3 cr.
BUS 029	BASIC ACCOUNTING PROCEDURES	3 cr.
BUS 036	ACCOUNTING APPLICATIONS	3 cr.
BUS& 101	INTRODUCTION TO BUSINESS	5 cr.
or MGMT 100	THE BUSINESS ENVIRONMENT	5 cr.
BUS 199	COOPERATIVE WORK EXPERIENCE	1-5 cr.
BUS 260	PRINCIPLES OF MARKETING	5 cr.
MGMT 101	PRINCIPLES OF MANAGEMENT	3 cr.

Total Required Credits: 47-50

Refer to the Degree & Certificate Requirements section in the Clark College Catalog to identify the courses needed to satisfy the general education requirements.

Business Administration (AAS)

The Business Administration Applied Science degree is designed for the student who wishes to complete a general business program rather than one of the specialty areas. This degree requires a core of business courses as well as additional courses that can be structured to meet a student's individual needs.

General Education Requirements

Communication Skills (6 credits required)

SMALL GROUP COMMUNICATION	5 cr.
lucation (3 credits required)	
s (3 credits required)	
FUNDAMENTALS OF BUSINESS MATHEMATICS	5 cr.
credits required)	
s required)	
edits required)	
INTRODUCTION TO ECONOMICS	3 cr.
MACRO ECONOMICS	5 cr.
credits required)	
	ucation (3 credits required) s (3 credits required) FUNDAMENTALS OF BUSINESS MATHEMATICS credits required) s required) edits required) INTRODUCTION TO ECONOMICS MACRO ECONOMICS

BTEC 100	KEYBOARDING	1-3 cr.
BTEC 147	PROFESSIONAL SELF-DEVELOPMENT	2 cr.
BTEC 150	COMPUTER BUSINESS APPLICATIONS	5 cr.
BUS 028	BASIC ACCOUNTING PROCEDURES	3 cr.
BUS 029	BASIC ACCOUNTING PROCEDURES	3 cr.
BUS 036	ACCOUNTING APPLICATIONS	3 cr.
BUS& 101	INTRODUCTION TO BUSINESS	5 cr.
or MGMT 100	THE BUSINESS ENVIRONMENT	5 cr.
BUS 199	COOPERATIVE WORK EXPERIENCE	1-5 cr.
BUS 260	PRINCIPLES OF MARKETING	5 cr.
MGMT 101	PRINCIPLES OF MANAGEMENT	3 cr.

Additional Major Area Electives

Select sufficient credits from the following areas to reach the degree total of 90 credits:

- Business Administration (BUS)
- Economics (ECON)
- Supervisory Management (MGMT)
- Microcomputer Applications (BTEC 6 credit maximum)

Total Required Credits: 90

Customer Service (CA)

This program provides students with basic customer service skills to help them:

- Develop a positive internal and external organizational/institutional customer climate,
- Develop a long-term customer service strategy to build a strong base for the profit and/or not-for-profit sectors, and
- Understand the entry-level jobs in the customer service field within a short completion time.

Major Area Requirements

BTEC 135	10-KEY CALCULATOR	1 cr.
BTEC 150	COMPUTER BUSINESS APPLICATIONS	5 cr.
BTEC 170	EXCEL FOR BUSINESS	3 cr.
BUS& 101	INTRODUCTION TO BUSINESS	5 cr.
or ECON 110	INTRODUCTION TO THE GLOBAL ECONOMY	5 cr.
or MGMT 100	THE BUSINESS ENVIRONMENT	5 cr.
BUS 110	CUSTOMER SERVICE	3 cr.
BUS 251	PROFESSIONAL SELLING	3 cr.
CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.
HDEV 117	COLLEGE SUCCESS	3 cr.
HDEV 186	STRESS MANAGEMENT	1 cr.

Total Required Credits: 32

Management I (CA)

Professionally trained managers and supervisors are vital to achieving success in today's marketplace. This 12-credit program will teach supervisory techniques to build a positive and productive work environment. Coursework will focus on real management problems faced by large and small businesses, as well as non-profit organizations. Current management concepts will be examined from actual cases, such as developing enthusiasm and creativity among employees, finding a shared vision and encouraging teamwork.

Major Area Requirements

Students must complete **one** course from **four** of the following five course clusters:

Cluster 1		
MGMT 100	THE BUSINESS ENVIRONMENT	5 cr.
MGMT 103	APPLIED MANAGEMENT SKILLS	3 cr.
MGMT 106	MOTIVATION AND PERFORMANCE	3 cr.
Cluster 2		
MGMT 120	SUPERVISOR AS A TRAINER COACH	3 cr.
MGMT 122	LEADERSHIP PRINCIPLES	3 cr.
Cluster 3		
MGMT 128	HUMAN RESOURCES MANAGEMENT	3 cr.
MGMT 132	LEGAL ISSUES IN EMPLOYEE RELATIONS	3 cr.
Cluster 4		
MGMT 110	CREATIVE PROBLEM SOLVING	3 cr.
MGMT 125	TEAM BUILDING AND GROUP BEHAVIOR	3 cr.
MGMT 133	PRODUCTION AND OPERATIONS MANAGEMENT	3 cr.
Cluster 5		
MGMT 107	SUPERVISORY COMMUNICATION I, WRITTEN	3 cr.
MGMT 112	CONFLICT MANAGEMENT	2 cr.

Total Required Credits: 11-12

Marketing (AAS)

Marketing provides the critical link between the producers of goods and services, and the consumers of those products. Marketing professionals design, price, promote, and distribute goods and services that meet the needs of target consumer groups. With the foundation that this program provides, the student will be prepared for an entry-level career in the varied and interesting manufacturing, distribution, and retail fields.

General Education Requirements

Communication Skills (6 credits required)

CMST& 220	PUBLIC SPEAKING	5 cr.
Health & Physical	Education (3 credits required)	
Computational Sk	xills (3 credits required)	
MATHB065	FUNDAMENTALS OF BUSINESS MATHEMATICS	5 cr.
Human Relations	(3 credits required)	

Humanities (3 cre	dits required)	
Social Sciences (3	credits required)	
ECON 101	INTRODUCTION TO ECONOMICS	3 cr.
or ECON& 202	MACRO ECONOMICS	5 cr.
Natural Sciences (3 credits required)	
Major Area R	equirements	
BUS 029	BASIC ACCOUNTING PROCEDURES	3 cr.
BUS& 101	INTRODUCTION TO BUSINESS	5 cr.
or MGMT 100	THE BUSINESS ENVIRONMENT	5 cr.
BUS 117	ADVERTISING	3 cr.
or BUS 217	PRINCIPLES OF ADVERTISING	5 cr.
BUS& 201	BUSINESS LAW	5 cr.
BUS 251	PROFESSIONAL SELLING	3 cr.
BUS 260	PRINCIPLES OF MARKETING	5 cr.
Additional M	ajor Area Electives	
Select sufficient c	redits from the following areas to reach the degree total of 90 credits	:
• Business Admi	inistration (BUS)	
• Economics (EC	ON)	
• Supervisory M	anagement (MGMT)	
Microcompute	er Applications (BTEC - 6 credit maximum)	

Total Required Credits: 90

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Merchandising Management (AAS)

Broadly speaking, merchandising refers to the transfer of products from producers to consumers. With the problems of distribution and merchandising becoming more complex, there is a need for men and women who possess the training necessary for leadership in this marketing/purchasing field. The recommended program is designed to give students the necessary background to advance to positions of managerial responsibility in the field of merchandising.

General Education Requirements

Communication S	kills (6 credits required)	
Health & Physical	Education (3 credits required)	
Computational Sk	xills (3 credits required)	
MATHB065	FUNDAMENTALS OF BUSINESS MATHEMATICS (or equivalent)	5 cr.
Human Relations	(3 credits required)	
Humanities (3 cre	dits required)	
Social Sciences (3	credits required)	
ECON 101	INTRODUCTION TO ECONOMICS	3 cr.
or ECON& 201	MICRO ECONOMICS	5 cr.
Natural Sciences ((3 credits required)	

BUS 028	BASIC ACCOUNTING PROCEDURES	3 cr.
BUS 029	BASIC ACCOUNTING PROCEDURES	3 cr.
BUS& 101	INTRODUCTION TO BUSINESS	5 cr.
or MGMT 100	THE BUSINESS ENVIRONMENT	5 cr.
BUS 115	SMALL BUSINESS MANAGEMENT	3 cr.
BUS 116	MERCHANDISING MANAGEMENT	3 cr.
BUS 117	ADVERTISING	3 cr.
or BUS 217	PRINCIPLES OF ADVERTISING	5 cr.
BUS 199	COOPERATIVE WORK EXPERIENCE (optional)	1-5 cr.
BUS& 201	BUSINESS LAW	5 cr.
BUS 251	PROFESSIONAL SELLING	3 cr.
BUS 260	PRINCIPLES OF MARKETING	5 cr.

Additional Major Area Electives

Select sufficient credits from the following areas to reach the degree total of 90 credits:

- Business Administration (BUS)
- Economics (ECON)
- Supervisory Management (MGMT)
- Microcomputer Applications (BTEC 6 credit maximum)

Total Required Credits: 90

Professional Sales (CP)

The success of most organizations in our economy is dependent on the ability of sales professionals to sell their products, services, or ideas. Career opportunities are available for qualified applicants as manufacturers' representatives, brokers, and industrial and retail salespersons. Successful sales experience can be financially rewarding and can lead to managerial positions.

Sales and marketing provide the critical link between the producers of goods and services and the consumers of those products. Sales and marketing professionals identify target groups of customers and then design, promote, sell, and distribute goods and services that meet the needs of those customers. With the foundation this program provides, the student will be prepared for a career in distribution, manufacturing, retail, or wholesale businesses. The two-year program in Marketing is recommended for entry into the varied and interesting marketing field.

General Education Requirements

Communication Skills (3 cre	edits required)
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Computational Skills (3 credits required)

MATHB065 FUNDAMENTALS OF BUSINESS MATHEMATICS 5 cr.

Human Relations (3 credits required)

Note: CMST& 230 satisfies the Human Relations requirement if taken as part of the Major Area Requirements.

BTEC 101	BEGINNING KEYBOARDING *	1-3 cr.
or BTEC 190	REFRESHER KEYBOARDING *	1-3 cr.
BTEC 150	COMPUTER BUSINESS APPLICATIONS	5 cr.
BUS 028	BASIC ACCOUNTING PROCEDURES	3 cr.
BUS 029	BASIC ACCOUNTING PROCEDURES	3 cr.
BUS& 101	INTRODUCTION TO BUSINESS	5 cr.
or BUS 115	SMALL BUSINESS MANAGEMENT	3 cr.
or MGMT 100	THE BUSINESS ENVIRONMENT	5 cr.
BUS 116	MERCHANDISING MANAGEMENT	3 cr.
BUS 117	ADVERTISING	3 cr.
or BUS 217	PRINCIPLES OF ADVERTISING	5 cr.
BUS 251	PROFESSIONAL SELLING	3 cr.
BUS 260	PRINCIPLES OF MARKETING	5 cr.
CMST& 220	PUBLIC SPEAKING	5 cr.
or CMST& 230	SMALL GROUP COMMUNICATION [HR]	5 cr.
ECON 101	INTRODUCTION TO ECONOMICS	3 cr.

Total Required Credits: 47-51

Small Business Management (CP)

This program is designed to provide current and prospective entrepreneurs and small-business owners with a basic foundation in small business management. Coursework includes accounting, business law, marketing, and business plan development. Upon completion of this program, students will be prepared to take on the challenge of starting, owning, and managing a small business or a franchise.

General Education Requirements

Communication Skills (3 credits required)

BTEC 087	APPLIED OFFICE ENGLISH	3 cr.
or BTEC 107	BUSINESS ENGLISH	5 cr.
Computational Skill	s (3 credits required)	
MATHB065	FUNDAMENTALS OF BUSINESS MATHEMATICS	5 cr.
Human Relations (3	credits required)	
CMST& 230	SMALL GROUP COMMUNICATION	5 cr.
Major Area Red	quirements	
BTEC 100	KEYBOARDING	1-3 cr.

BTEC 100	KEYBOARDING	1-3 cr.
BTEC 150	COMPUTER BUSINESS APPLICATIONS	5 cr.
BUS 028	BASIC ACCOUNTING PROCEDURES	3 cr.
BUS 029	BASIC ACCOUNTING PROCEDURES	3 cr.
BUS 036	ACCOUNTING APPLICATIONS	3 cr.

^{*} Register for BTEC 100.

BUS 115	SMALL BUSINESS MANAGEMENT	3 cr.
BUS 133	FEASIBILITY PLAN	1 cr.
BUS 135	BUSINESS PLAN	3 cr.
BUS& 201	BUSINESS LAW	5 cr.
BUS 251	PROFESSIONAL SELLING	3 cr.
BUS 260	PRINCIPLES OF MARKETING	5 cr.
MGMT 101	PRINCIPLES OF MANAGEMENT	3 cr.
MGMT 107	SUPERVISORY COMMUNICATION I, WRITTEN	3 cr.

Total Required Credits: 54-59

Supervisory Management (CA)

The supervisory manager has the important role of getting work completed by leading, managing, and motivating people. Clark College offers a comprehensive training program that leads to a Certificate of Achievement in Supervisory Management and provides a major base for the Associate in Applied Science degree. Courses deal with solutions to supervisory problems regularly encountered on the job. This program provides an opportunity for current and potential supervisors to increase and broaden their performance levels and to advance into more responsible positions.

Major Area Requirements

MGMT 101	PRINCIPLES OF MANAGEMENT	3 cr.
MGMT 103	APPLIED MANAGEMENT SKILLS	3 cr.
MGMT 110	CREATIVE PROBLEM SOLVING	3 cr.
One course in w	ritten communication from the following:	
MGMT 107	SUPERVISORY COMMUNICATION I, WRITTEN	3 cr.
ENGL& 101	ENGLISH COMPOSITION I	5 cr.
ENGL 135	INTRODUCTION TO TECHNICAL WRITING	5 cr.
One course in or	ral communication from the following:	
CMST 212	ORAL COMMUNICATION IN BUSINESS	3 cr.
CMST& 220	PUBLIC SPEAKING	5 cr.
CMST& 230	SMALL GROUP COMMUNICATION	5 cr.

Additional Major Area Requirements

Select a minimum of 18 credits:

BTEC 150	COMPUTER BUSINESS APPLICATIONS	5 cr.
MGMT 100	THE BUSINESS ENVIRONMENT	5 cr.
MGMT 106	MOTIVATION AND PERFORMANCE	3 cr.
MGMT 107	SUPERVISORY COMMUNICATION I, WRITTEN	3 cr.
MGMT 112	CONFLICT MANAGEMENT	2 cr.
MGMT 113	HUMANIZING THE WORKPLACE	1 cr.
MGMT 120	SUPERVISOR AS A TRAINER COACH	3 cr.
MGMT 122	LEADERSHIP PRINCIPLES	3 cr.

MGMT 125	TEAM BUILDING AND GROUP BEHAVIOR	3 cr.
MGMT 128	HUMAN RESOURCES MANAGEMENT	3 cr.
MGMT 132	LEGAL ISSUES IN EMPLOYEE RELATIONS	3 cr.
MGMT 133	PRODUCTION AND OPERATIONS MANAGEMENT	3 cr.
MGMT 199	COOPERATIVE WORK EXPERIENCE	1-5 cr.
MGMT 280	SELECTED TOPICS	1-5 cr.
Strongly Red	commended Electives	
BTEC 100	KEYBOARDING	1-3 cr.
MATHB065	FUNDAMENTALS OF BUSINESS MATHEMATICS (or equivalent)	5 cr.
# # - # - # - # - # - # - # - # - # - #	Total Required Cr	edits: 33-37

Supervisory Management (AAS)

General Education Requirements

Communication Skills (6 credits required)

	(** -::	
ENGL& 101	ENGLISH COMPOSITION I	5 cr.
or ENGL 135	INTRODUCTION TO TECHNICAL WRITING	5 cr.
or MGMT 107	SUPERVISORY COMMUNICATION I, WRITTEN	3 cr.
and CMST 212	ORAL COMMUNICATION IN BUSINESS	3 cr.
or CMST& 220	PUBLIC SPEAKING (also counts for Humanities)	5 cr.
or CMST& 230	SMALL GROUP COMMUNICATION (also counts for Humanities)	5 cr.
Health & Physical	Education (3 credits required)	
Computational Sk	ills (3 credits required)	
MATHB065	FUNDAMENTALS OF BUSINESS MATHEMATICS	5 cr.
Human Relations	(3 credits required)	
PSYC& 100	GENERAL PSYCHOLOGY	5 cr.
Humanities (3 cred	dits required)	
Social Sciences (3	credits required)	
ECON 101	INTRODUCTION TO ECONOMICS	3 cr.
Natural Sciences (3 credits required)	
Major Area Re	oguiroments	
BTEC 150	COMPUTER BUSINESS APPLICATIONS	5 cr.
BUS 028	BASIC ACCOUNTING PROCEDURES	3 cr.
BUS 029	BASIC ACCOUNTING PROCEDURES	3 cr.
BUS& 101	INTRODUCTION TO BUSINESS	5 cr.
or MGMT 100	THE BUSINESS ENVIRONMENT	5 cr.
BUS& 201	BUSINESS LAW	5 cr.
ENGL 212	BUSINESS COMMUNICATIONS	3 cr.
LINULZIZ	DOJINESS COMMUNICATIONS	J CI.

or MGMT 107	SUPERVISORY COMMUNICATION I, WRITTEN	3 cr.
MGMT 101	PRINCIPLES OF MANAGEMENT	3 cr.
MGMT 103	APPLIED MANAGEMENT SKILLS	3 cr.
MGMT 126	PROJECT MANAGEMENT	3 cr.
MGMT 128	HUMAN RESOURCES MANAGEMENT	3 cr.
MGMT 133	PRODUCTION AND OPERATIONS MANAGEMENT	3 cr.

Select a minimum of 18 credits:

BUS 260	PRINCIPLES OF MARKETING	5 cr.
BUS 115	SMALL BUSINESS MANAGEMENT	3 cr.
BUS 203	DESCRIPTIVE STATISTICS	3 cr.
ENGL 212	BUSINESS COMMUNICATIONS	3 cr.
or BUS 211	BUSINESS COMMUNICATIONS	3 cr.
MGMT 106	MOTIVATION AND PERFORMANCE	3 cr.
MGMT 110	CREATIVE PROBLEM SOLVING	3 cr.
MGMT 112	CONFLICT MANAGEMENT	2 cr.
MGMT 113	HUMANIZING THE WORKPLACE	1 cr.
MGMT 120	SUPERVISOR AS A TRAINER COACH	3 cr.
MGMT 122	LEADERSHIP PRINCIPLES	3 cr.
MGMT 125	TEAM BUILDING AND GROUP BEHAVIOR	3 cr.
MGMT 132	LEGAL ISSUES IN EMPLOYEE RELATIONS	3 cr.
MGMT 199	COOPERATIVE WORK EXPERIENCE	1-5 cr.
MGMT 280	SELECTED TOPICS	1-5 cr.

Additional Major Area Electives

Select sufficient credits from the following areas to reach the degree total of 90 credits:

- Business Administration (BUS)
- Economics (ECON)
- Supervisory Management (MGMT)
- Microcomputer Applications (BTEC 6 credit maximum)

Total Required Credits: 90-92

Business Administration (Transfer)

The broad field of business provides for a wide variety of career opportunities. Some of the professions open to those with a business administration degree are business executive and manager, financial manager, health services manager, hotel and motel manager, public administrator, restaurant manager, and small business operator/entrepreneur.

Typical duties might include developing and administering business plans to increase profits, identifying strategies and implementing policies for maintaining good relations with customers and the community, interacting with other key managers within the organization to establish goals overseeing the finances of a department or the entire organization, and supervising, training and evaluating staff members.

Salaries may range from \$42,000 to \$125,000 per year. They vary within the industry and are dependent upon the company's size, location, and the person's scope of responsibilities, experience, and education.

Students may select an area of specialization (e.g., accounting, finance, marketing, management) in which to major at their transfer institution. Students should check with individual colleges to meet specific requirements.

Students must complete all specifically listed courses and Major Area Requirements with a minimum grade of "C" or better in order to successfully complete the program and earn the award.

Refer to the Degree & Certificate Requirements section in the Clark College Catalog to identify the courses needed to satisfy the General Education Requirements.

Business Administration Transfer to WSU Vancouver (AA)

This is a program for the first two years of major study in Business Administration. Contact a WSU Vancouver advisor to determine required coursework as early as possible.

General Education Requirements

Communication Skills (10 credits required)

ENGL& 101	ENGLISH COMPOSITION I	5 cr.
ENGL& 102	ENGLISH COMPOSITION II	5 cr.
Quantitative Skill	ls (5 credits required)	
MATH 105	FINITE MATHEMATICS	5 cr.
Health & Physical	l Education (3 credits required)	
Health & Physical	Education	3 cr.
Oral Communica	tions (5 credits required)	
Humanities (15 c	redits required)	
CMST& 220	PUBLIC SPEAKING	5 cr.
or CMST& 230	SMALL GROUP COMMUNICATION	5 cr.
Additional Huma	nities Courses	10 cr.
Social Sciences (1	15 credits required)	
ECON& 201	MICRO ECONOMICS	5 cr.
ECON& 202	MACRO ECONOMICS	5 cr.
PSYC& 100	GENERAL PSYCHOLOGY	5 cr.
or SOC& 101	INTRO TO SOCIOLOGY	5 cr.
Natural Sciences	(15 credits required)	
MATH& 148	BUSINESS CALCULUS	5 cr.
Natural Sciences	*	10 cr.
Major Area R	Requirement	
ACCT& 201	PRINCIPLES OF ACCOUNTING I	5 cr.
ACCT& 202	PRINCIPLES OF ACCOUNTING II	5 cr.
ACCT& 203	PRIN OF ACCOUNTING III	5 cr.
BUS 203	DESCRIPTIVE STATISTICS **	3 cr.
BUS 204	INFERENTIAL STATISTICS **	3 cr.

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BUS& 201 BUSINESS LAW 5 cr.

General Electives (15 credits required)

General Electives Total Required Credits: 90

* Must earn ten (10) credits in addition to MATH& 148 in Natural Science from two different departments. A lab course is required.

Business DTA/MRP (AA)

This pathway is applicable to students planning to prepare for various business majors at universities in Washington state. Effective Fall 2008 this agreement cancels and supersedes the existing statewide Business DTA agreement dated Summer 2003. Prior to Fall 2008 parties to the 2003 Business DTA additionally agree to continue to honor that agreement. Parties to that agreement may honor the April 2006 agreement prior to Fall 2008, if it is advantageous to the student. This agreement shall be subject to review and renewal by all parties not later than Winter 2010.

This document represents the business DTA/MRP agreement, an agreement that meets all requirements of Washington's Direct Transfer Agreement, between the baccalaureate institutions offering a Bachelor of Science or Bachelor of Arts in business administration including accounting, management and management information systems. Baccalaureate institutions party to this agreement are: CWU, EWU, UW (all campuses), WSU (all campuses), WWU, Gonzaga, Heritage, PLU, SMU, SPU, SU, and Walla Walla University.

Students need to make early contact with their potential transfer institutions regarding the specific course choices in each area of the agreement where options are listed (Humanities, Social Science, and Business Law or Introduction to Law) and for electives. Students also need to check with their potential transfer institutions regarding the requirement for overall minimum GPA, a higher GPA in a selected subset of courses, or a specific minimum grade in one or more courses such as math or English.

Students planning on transfer to the University of Washington should contact that institution early as Clark College does not currently offer a class that meets the transfer equivalency for Introduction to Law as required by this degree agreement.

Though this degree does not require such, Clark College students should know that the standard Clark AA degree path has these differences from the MRP defined below:

- Clark requires 3 credits of Health-Physical Education coursework,
- As of Fall 2011, Clark requires a course in Oral Communication, and
- Clark's Social Science distribution requirement stipulates that students take courses from at least three different departments.

Students must also meet the residency requirements as established by Clark. While Clark College has approved offering the degree below, Clark students should keep these requirements in mind should their transfer pathways change.

Students are responsible for researching and preparing for specific major requirements of baccalaureate institutions as early as possible prior to transferring.

For more information, please visit the Major Related Programs/Articulated Degrees section of this catalog.

Generic DTA Requirements

A. Basic Requirements

1. Communications Skills	10 cr.
2. Quantitative/Symbolic Reasoning Requirement	5 cr.
Intermediate algebra proficiency is required.	

^{**}All business majors intending to complete a Clark College AA degree must take BUS 203 and 204. MATH 203 and 204 will NOT meet the requirement for this degree.

B. Distribution Requirements	
1. Humanities	15 cr.
2. Social Sciences	15 cr.
3. Natural Sciences	
C. Major Requirements	
1. Business courses	
D. Electives	
1. Elective courses	
MRP Requirements	
A. Basic Requirements	
1. English Composition	10 cr.
2. Quantitative/Symbolic Reasoning Requirement	10 cr.
Finite Math (5 cr.)	
Business Calculus (5 cr.)	
Intermediate algebra proficiency is required	
B. Distribution Requirements	
1. Humanities	15 cr.
Consistent with the requirements in all DTA degrees - no more than 10 credits per credits maximum in world languages or ASL. No more than 5 credits of performar are allowed.	
2. Social Sciences	15 cr.
Microeconomics (5 cr.)	
Macroeconomics (5 cr.)	
Additional social science - not economics (5 cr.)	
3. Natural Sciences	15 cr.
Statistics - business statistics preferred (5 cr.)	
Physical, biological, and/or earth science, including at least one lab course (10 cr.)	
C. Major Requirements	
1. Business Courses	20 cr.
Intro to Financial Accounting (5 cr.)	
Financial Accounting II (5 cr.)	
Managerial Accounting (5 cr.)	
Business Law or Introduction to Law (5 cr.)	
D. Electives	
1. Electives	5 cr.

Clark College Equivalents

A. Basic Requirements

1	Com	mun	ication	Chille
١.	COIL	IIIIUI	ııcatıbı	OKIIIS

ENGLISH COMPOSITION I	5 cr.
ENGLISH COMPOSITION II	5 cr.
polic Reasoning	
FINITE MATHEMATICS	5 cr.
BUSINESS CALCULUS	5 cr.
rements	
Humanities as defined in the Clark College catalog.	
cally required for WSUV business transfer.	
MICRO ECONOMICS	5 cr.
MACRO ECONOMICS	5 cr.
le Economics	5 cr.
DESCRIPTIVE STATISTICS	3 cr.
DESCRIPTIVE STATISTICS	3 cr.
INFERENTIAL STATISTICS	3 cr.
INFERENTIAL STATISTICS	3 cr.
sework, including 1 lab as defined by Clark College	10 cr.
nts	
for all schools except UW)	
PRINCIPLES OF ACCOUNTING I	5 cr.
PRINCIPLES OF ACCOUNTING II	5 cr.
PRIN OF ACCOUNTING III	5 cr.
BUSINESS LAW	5 cr.
	5 cr.
	ENGLISH COMPOSITION II polic Reasoning FINITE MATHEMATICS BUSINESS CALCULUS rements Humanities as defined in the Clark College catalog. cally required for WSUV business transfer. MICRO ECONOMICS MACRO ECONOMICS e Economics DESCRIPTIVE STATISTICS DESCRIPTIVE STATISTICS INFERENTIAL STATISTICS INFERENTIAL STATISTICS sework, including 1 lab as defined by Clark College ts for all schools except UW) PRINCIPLES OF ACCOUNTING II PRINCIPLES OF ACCOUNTING III

Notes

A. Basic Requirements

1. Communication Skills

ENGL& 102 is REQUIRED at Eastern Washington University.

B. Distribution Requirements

1. Humanities

Students intending the international business major should consult their potential transfer institutions regarding the level of world language required for admission to the major. 5 credits in world

languages may apply to the Humanities requirement.

CMST& 220 is specifically required for WSUV business transfer.

3. Natural Sciences

Students intending the manufacturing management major at WWU should consult WWU regarding the selection of natural science courses required for admission to the major.

C. Major Requirements

1. Business Courses

UW requires Introduction to Law, an equivalent for which does not exist at Clark.

The following institutions do not require a lower division Business Law course and agree to accept the course taken as part of this degree as a lower division elective, but generally not as an equivalent to the course required at the upper division: Heritage, PLU, SU, and Walla Walla University.

D. Electives

1. Elective Courses

Note: The following 4 schools REQUIRE a course for admissions. Please consult with transfer advisors for exact courses at Clark to fulfill requirements.

WSU (all campuses): MIS 250

Gonzaga: BMIS 235

PLU: CSCE 120

SPU: BUS 1700

Total Required Credits: 90 Minimum

Section C: Degrees and Certificates: page C40

Business Technology

The office professional is indispensable in every business, industry, and agency in the United States. Career advancement is readily available for the individual who develops a high degree of skill in technology, management, communication, and human relations.

Students must complete all specifically listed courses and Major Area Requirements with a minimum grade of "C" or better in order to successfully complete the program and earn the award.

Refer to the Degree & Certificate Requirements Section of the Clark College Catalog to identify the courses needed to satisfy the General Education Requirements.

Business Technology – Administrative Assistant (AAS)

Today, administrative assistants are a part of the management team. They perform and coordinate office activities and ensure that information gets disseminated in a timely fashion to staff and clients. Management and other support staff rely on them to keep administrative operations under control. The administrative assistant is an entry-level professional administrator in many organizations.

Administrative assistants must be proficient in keyboarding and communication skills (verbal and written) and possess good interpersonal communication skills. Continuing technological changes also require them to be adaptable and versatile. Training should include a thorough knowledge of computer applications.

Nationally, this occupation is expected to grow more than the average for all occupations, while an average growth is anticipated in the state of Washington through the next decade.

General Education Requirements

	mino (o creamo requirea)	
ENGL& 101	ENGLISH COMPOSITION I	5 cr.
ENGL 212	BUSINESS COMMUNICATIONS	3 cr.
or BUS 211	BUSINESS COMMUNICATIONS	3 cr.
Health & Physical	Education (3 credits required)	
Computational Sk	xills (3 credits required)	
MATHB065	FUNDAMENTALS OF BUSINESS MATHEMATICS	5 cr.
Human Relations	(3 credits required)	
CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.
or CMST& 230	SMALL GROUP COMMUNICATION	5 cr.
Humanities (3 cre	dits required) **	
Social Sciences (3	credits required) **	
Natural Sciences (3 credits required)	
Major Area R	aquiroments	
BTEC 010	SPEED AND ACCURACY BUILDING (must take for 3 credits)	1-3 cr.
BTEC 101	BEGINNING KEYBOARDING (must take for 3 credits) *	1-3 cr.
or BTEC 190	REFRESHER KEYBOARDING (must take for 3 credits) *	1-3 cr.
BTEC 102	DOCUMENT FORMATTING (must take for 3 credits)	1-3 cr.
BTEC 107	BUSINESS ENGLISH	5 cr.
BTEC 122	WORD FOR BUSINESS	5 cr.
BTEC 131	FILING AND RECORDS MANAGEMENT	3 cr.
BTEC 135	10-KEY CALCULATOR	1 cr.
BTEC 140	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 141	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 143	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 145	BUSINESS TECHNOLOGY SEMINAR	2 cr.
and BTEC 199	COOPERATIVE WORK EXPERIENCE ****	1-3 cr.
or BTEC 147	PROFESSIONAL SELF-DEVELOPMENT ***	2 cr.
BTEC 140	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 141	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 143	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 145	BUSINESS TECHNOLOGY SEMINAR	2 cr.

COOPERATIVE WORK EXPERIENCE

BUSINESS TECHNOLOGY SEMINAR

BUSINESS TECHNOLOGY SEMINAR

BUSINESS TECHNOLOGY SEMINAR

BUSINESS TECHNOLOGY SEMINAR

and BTEC 199

BTEC 140

or BTEC 141

or BTEC 143

or BTEC 145

1-3 cr.

2 cr.

2 cr.

2 cr.

2 cr.

and BTEC 199	COOPERATIVE WORK EXPERIENCE ****	1-3 cr.
BTEC 155	INTRODUCTION TO OFFICE PUBLISHING TOOLS	3 cr.
BTEC 165	POWERPOINT PRESENTATION	3 cr.
BTEC 169	INTRODUCTION TO EXCEL	3 cr.
BTEC 170	EXCEL FOR BUSINESS	3 cr.
BTEC 175	ACCESS FOR BUSINESS	3 cr.
BTEC 211	ADMINISTRATIVE PROCEDURES	5 cr.
BTEC 212	E-COMMERCE: INTRO TO BUSINESS ON THE WEB	3 cr.
BUS& 101	INTRODUCTION TO BUSINESS	5 cr.
CTEC 102	INTRODUCTION TO WINDOWS	3 cr.

Total Required Credits: 90 minimum

1-3 cr.

1-3 cr.

Section C: Degrees and Certificates: page C42

Business Technology – Business Software Applications Specialist (AAS)

Many information specialist positions are available in the business world with a wide range of responsibilities. Training for higher-level positions should provide skills in a variety of computer software including Internet as well as a basic knowledge of business.

General Education Requirements

Communication Skills (6 credits required)

ENGL& 101	ENGLISH COMPOSITION I	5 cr.
ENGL 212	BUSINESS COMMUNICATIONS	3 cr.
or BUS 211	BUSINESS COMMUNICATIONS	3 cr.
Health & Physica	Education (3 credits required)	
Computational S	kills (3 credits required)	
MATHB065	FUNDAMENTALS OF BUSINESS MATHEMATICS	5 cr.
Human Relations	(3 credits required)	
CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.
or CMST& 230	SMALL GROUP COMMUNICATION	5 cr.
Humanities (3 cre	edits required) **	
Social Sciences (3	3 credits required) **	
Natural Sciences	(3 credits required)	
Major Area R	equirements	
BTEC 010	SPEED AND ACCURACY BUILDING (must take for 3 credits)	1-3 cr.

BEGINNING KEYBOARDING (must take for 3 credits) *

REFRESHER KEYBOARDING (must take for 3 credits) *

BTEC 101

or BTEC 190

^{*} Register for BTEC 100.

^{**} CMST courses may not count for more than two distribution areas of general education requirements. CMST& 210 can count for Humanities or Social Sciences; CMST& 230 can count for Humanities.

^{***} BTEC 147 may be substituted for your first term of Seminar.

^{****} Minimum of 6 credits must be earned in Cooperative Work Experience.

BTEC 107	BUSINESS ENGLISH	5 cr.
BTEC 122	WORD FOR BUSINESS	5 cr.
BTEC 131	FILING AND RECORDS MANAGEMENT	3 cr.
BTEC 135	10-KEY CALCULATOR	1 cr.
BTEC 140	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 141	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 143	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 145	BUSINESS TECHNOLOGY SEMINAR	2 cr.
and BTEC 199	COOPERATIVE WORK EXPERIENCE ****	1-3 cr.
or BTEC 147	PROFESSIONAL SELF-DEVELOPMENT ***	2 cr.
BTEC 140	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 141	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 143	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 145	BUSINESS TECHNOLOGY SEMINAR	2 cr.
and BTEC 199	COOPERATIVE WORK EXPERIENCE ****	1-3 cr.
BTEC 140	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 141	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 143	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 145	BUSINESS TECHNOLOGY SEMINAR	2 cr.
and BTEC 199	COOPERATIVE WORK EXPERIENCE ****	1-3 cr.
BTEC 155	INTRODUCTION TO OFFICE PUBLISHING TOOLS	3 cr.
BTEC 165	POWERPOINT PRESENTATION	3 cr.
BTEC 169	INTRODUCTION TO EXCEL	3 cr.
BTEC 170	EXCEL FOR BUSINESS	3 cr.
BTEC 175	ACCESS FOR BUSINESS	3 cr.
BTEC 211	ADMINISTRATIVE PROCEDURES	5 cr.
BTEC 212	E-COMMERCE: INTRO TO BUSINESS ON THE WEB	3 cr.
BUS& 101	INTRODUCTION TO BUSINESS	5 cr.
CTEC 102	INTRODUCTION TO WINDOWS	3 cr.
CTEC 115	INTERNET RESEARCH AND LIVING ONLINE	2 cr.

Total Required Credits: 92-95

Computer Application Skills – Module I (CERT)

Professional skills that can prepare students for the job market in just three months are available through the Clark College Business Technology department.

The Certificate of Completion is designed for students who wish to gain entry level skills or for those who wish to upgrade their skills in a short period of time. Certificates of Completion typically consist of three to four courses.

^{*} Register for BTEC 100.

^{**} CMST courses may not count for more than two distribution areas of general education requirements. CMST& 210 can count for Humanities or Social Sciences; CMST& 230 can count for Humanities.

^{***}BTEC 147 may be substituted for your first term of Seminar.

^{****}Minimum of 6 credits must be earned in Cooperative Work Experience.

They are awarded by the department with the approval of the program advisory committee and the Office of Instruction. The courses can be taken simultaneously or individually as your schedule allows. Certificates of Completion are not recorded on the student's Clark College transcript.

Students must complete all specifically listed courses and Major Area Requirements with a minimum grade of "C" or better in order to successfully complete the program and earn the award.

Major Area Requirements

Prerequisite: Keyboarding 30wpm

BTEC 122	WORD FOR BUSINESS	5 cr.
BTEC 165	POWERPOINT PRESENTATION	3 cr.
CTEC 102	INTRODUCTION TO WINDOWS	3 cr.

Total Required Credits: 11

Computer Application Skills – Module II (CERT)

Professional skills that can prepare students for the job market in just three months are available through the Clark College Business Technology department.

The Certificate of Completion is designed for students who wish to gain entry-level skills or for those who wish to upgrade their skills in a short period of time. Certificates of Completion typically consist of three to four courses. They are awarded by the department with the approval of the program advisory committee and the Office of Instruction. The courses can be taken simultaneously or individually as your schedule allows. Certificates of Completion are not recorded on the student's Clark College transcript.

Students must complete all specifically listed courses and Major Area Requirements with a minimum grade of "C" or better in order to successfully complete the program and earn the award.

Major Area Requirements

BTEC 169	INTRODUCTION TO EXCEL	3 cr.
BTEC 175	ACCESS FOR BUSINESS	3 cr.
MGMT 126	PROJECT MANAGEMENT	3 cr.

Total Required Credits: 9

Computer Application Skills – Module III (CERT)

Professional skills that can prepare students for the job market in just three months are available through the Clark College Business Technology department.

The Certificate of Completion is designed for students who wish to gain entry-level skills or for those who wish to upgrade their skills in a short period of time. Certificates of Completion typically consist of three to four courses. They are awarded by the department with the approval of the program advisory committee and the Office of Instruction. The courses can be taken simultaneously or individually as your schedule allows. Certificates of Completion are not recorded on the student's Clark College transcript.

Students must complete all specifically listed courses and Major Area Requirements with a minimum grade of "C" or better in order to successfully complete the program and earn the award.

BTEC 160	WEB PAGE INTRODUCTION:	3 cr.
BTEC 212	E-COMMERCE: INTRO TO BUSINESS ON THE WEB	3 cr.
CTEC 115	INTERNET RESEARCH AND LIVING ONLINE	2 cr.
CGT 101	PHOTOSHOP RASTER GRAPHICS	4 cr.

Total Required Credits: 12

Business Technology – Office Assistant (CP)

An office assistant compiles data and keyboards on a computer in performance of clerical duties to maintain business records and reports. A variety of other duties are usually performed, including filing, sorting mail, answering the telephone, posting data, and computing amounts on calculators.

General Education Requirements

Communication Skills (3 credits required)

BTEC 107	BUSINESS ENGLISH	5 cr.
Computational Sk	xills (3 credits required)	
MATHB065	FUNDAMENTALS OF BUSINESS MATHEMATICS	5 cr.
Human Relations	(3 credits required)	
CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.
or CMST& 230	SMALL GROUP COMMUNICATION	5 cr.

Major Area Requirements

BTEC 101	BEGINNING KEYBOARDING (must take for 3 credits) *	1-3 cr.
or BTEC 190	REFRESHER KEYBOARDING (must take for 3 credits) *	1-3 cr.
BTEC 102	DOCUMENT FORMATTING (must take for 3 credits)	1-3 cr.
BTEC 122	WORD FOR BUSINESS	5 cr.
BTEC 131	FILING AND RECORDS MANAGEMENT	3 cr.
BTEC 135	10-KEY CALCULATOR	1 cr.
BTEC 140	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 141	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 143	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 145	BUSINESS TECHNOLOGY SEMINAR	2 cr.
and BTEC 199	COOPERATIVE WORK EXPERIENCE ***	1-3 cr.
or BTEC 147	PROFESSIONAL SELF-DEVELOPMENT **	2 cr.
BTEC 140	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 141	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 143	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 145	BUSINESS TECHNOLOGY SEMINAR	2 cr.
and BTEC 199	COOPERATIVE WORK EXPERIENCE ***	1-3 cr.

BTEC 150	COMPUTER BUSINESS APPLICATIONS	5 cr.
BTEC 211	ADMINISTRATIVE PROCEDURES	5 cr.

Recommended Elective (Not Required)

BTEC 010	SPEED AND ACCURACY BUILDING (must take for 3 credits)	1-3 cr.

Total Required Credits: 47

Office Skills - Module I (CERT)

Professional skills that can prepare you for the job market in just three months are available through the Clark College Business Technology department.

The Certificate of Completion is designed for students who wish to gain entry-level skills or for those who wish to upgrade their skills in a short period of time. Certificates of Completion typically consist of three to four courses. They are awarded by the department with the approval of the program advisory committee and the Office of Instruction. The courses can be taken simultaneously or individually as your schedule allows. Certificates of Completion are not recorded on the student's Clark College transcript.

Students must complete all specifically listed courses and Major Area Requirements with a minimum grade of "C" or better in order to successfully complete the program and earn the award.

Major Area Requirements

BTEC 087	APPLIED OFFICE ENGLISH	3 cr.
BTEC 100	KEYBOARDING (must take for 3 credits)	1-3 cr.
or BTEC 190	REFRESHER KEYBOARDING (must take for 3 credits)	1-3 cr.

Total Required Credits: 11

Program Competencies

- Proficient in using English, spelling words correctly in business correspondence and communication.
- Proficient in basic writing skills for business letters and memorandums including word usage, grammar, sentence structure, and punctuation.
- Proficient at keyboarding business documents including business letters, memorandums, tables and reports using Microsoft Word at a minimum keyboarding speed of 30 wpm.

Office Skills - Module II (CERT)

Professional skills that can prepare you for the job market in just three months are available through the Clark College Business Technology department.

The Certificate of Completion is designed for students who wish to gain entry-level skills or for those who wish to upgrade their skills in a short period of time. Certificates of Completion typically consist of three to four courses. They are awarded by the department with the approval of the program advisory committee and the Office of Instruction. The courses can be taken simultaneously or individually as your schedule allows. Certificates of Completion are not recorded on the student's Clark College transcript.

Students must complete all specifically listed courses and Major Area Requirements with a minimum grade of "C" or better in order to successfully complete the program and earn the award.

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^{*} Register for BTEC 100.

^{**}BTEC 147 may be substituted for your first term of Seminar.

^{***}Minimum of 3 credits must be earned in Cooperative Work Experience.

BTEC 131	FILING AND RECORDS MANAGEMENT	3 cr.
BTEC 147	PROFESSIONAL SELF-DEVELOPMENT	2 cr.
BTEC 149	COMPUTER APPLICATIONS ESSENTIALS	3 cr.
or BTEC 150	COMPUTER BUSINESS APPLICATIONS	5 cr.

Total Required Credits: 13

Program Competencies

- Proficient in using indexing rules, coding, and filing for alphabetic, numeric, geographic, and subject filing systems.
- Knowledge of records storage including equipment and supplies.
- Knowledge of professional concepts for individuals in business including customer service skills, interpersonal communications, work ethics, team building, job applications, interviewing techniques, resumes, and professional attire.
- Ability to produce routine business documents using Microsoft Office.

Office Skills - Module III (CERT)

Professional skills that can prepare you for the job market in just three months are available through the Clark College Business Technology department.

The Certificate of Completion is designed for students who wish to gain entry-level skills or for those who wish to upgrade their skills in a short period of time. Certificates of Completion typically consist of three to four courses. They are awarded by the department with the approval of the program advisory committee and the Office of Instruction. The courses can be taken simultaneously or individually as your schedule allows. Certificates of Completion are not recorded on the student's Clark College transcript.

Students must complete all specifically listed courses and Major Area Requirements with a minimum grade of "C" or better in order to successfully complete the program and earn the award.

Major Area Requirements

BTEC 122	WORD FOR BUSINESS	5 cr.
BTEC 140	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 141	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 143	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 145	BUSINESS TECHNOLOGY SEMINAR	2 cr.
BTEC 199	COOPERATIVE WORK EXPERIENCE (must take for 3 credits)	1-3 cr.

Total Required Credits: 12-14

Program Competencies

- Proficient at using Microsoft Word to create, edit, format, manage files, and print basic letters, tables, memos, and reports.
- Demonstrated proficiency in using merged form letters, envelopes, mailing labels, outlines, styles, and templates.
- Knowledge of human relations including customer service skills, work ethics, team building, office organization and supervision, job application, interviewing techniques, resumes, and professional attire.
- Minimum of 90 hours work experience in business and office environment.

Business Technology-Office Software Applications (CP)

This program is designed for students who have had prior training in computer software applications and office skills. Students with no prior training should consider entering the two-year program.

Prerequisites for enrollment: Ability to keyboard at 30 wpm (certified by a keyboarding test) and successful completion of ENGL& 101.

Students will be required to work part-time in an office during their last quarter.

BUICINIEGG COMMUNICATIONIC

Students must maintain a cumulative grade point average of 2.00 to receive this certificate.

General Education Requirements

Communication Skills (3 credits required)

DI 16 244

BUS 211	BUSINESS COMMUNICATIONS	3 cr.
or ENGL 212	BUSINESS COMMUNICATIONS	3 cr.
Computational Ski	lls (3 credits required)	
MATHB065	FUNDAMENTALS OF BUSINESS MATHEMATICS	5 cr.
Human Relations (3 credits required)	
CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.
or CMST& 230	SMALL GROUP COMMUNICATION	5 cr.
Major Area Re	quirements	
BTEC 122	WORD FOR BUSINESS	5 cr.
BTEC 140	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 141	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 143	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 145	BUSINESS TECHNOLOGY SEMINAR	2 cr.
and BTEC 199	COOPERATIVE WORK EXPERIENCE (must take for 2-3 credits)	1-3 cr.
or BTEC 147	PROFESSIONAL SELF-DEVELOPMENT	2 cr.
BTEC 155	INTRODUCTION TO OFFICE PUBLISHING TOOLS	3 cr.
BTEC 165	POWERPOINT PRESENTATION	3 cr.
BTEC 169	INTRODUCTION TO EXCEL	3 cr.
BTEC 175	ACCESS FOR BUSINESS	3 cr.
BTEC 212	E-COMMERCE: INTRO TO BUSINESS ON THE WEB	3 cr.
BUS& 101	INTRODUCTION TO BUSINESS	5 cr.
CTEC 102	INTRODUCTION TO WINDOWS	3 cr.

Total Required Credits: 48-51

Business Technology-Front Office Assistant (CA)

Front office assistants are all-around office workers who perform many clerical duties which are important for the smooth operation of an office. They may file records; tabulate and post data in record books; prepare and mail receipts, invoices, and similar items; operate calculators, copiers, and computers; receive customers; and perform other customer service. Students must complete all specifically listed courses and Major Area Requirements with a minimum grade of "C" or better in order to successfully complete the program and earn the award.

BTEC 087	APPLIED OFFICE ENGLISH	3 cr.
or BTEC 107	BUSINESS ENGLISH	5 cr.
BTEC 101	BEGINNING KEYBOARDING (must take for 3 credits)	1-3 cr.
or BTEC 190	REFRESHER KEYBOARDING (must take for 3 credits)	1-3 cr.
BTEC 131	FILING AND RECORDS MANAGEMENT	3 cr.
BTEC 135	10-KEY CALCULATOR	1 cr.
BTEC 147	PROFESSIONAL SELF-DEVELOPMENT	2 cr.
BTEC 149	COMPUTER APPLICATIONS ESSENTIALS	3 cr.
or BTEC 150	COMPUTER BUSINESS APPLICATIONS	5 cr.
or BTEC 116	APPLICATION ESSENTIALS: WORD	1 cr.
and BTEC 117	APPLICATION ESSENTIALS: EXCEL	1 cr.
and BTEC 118	APPLICATION ESSENTIALS: POWERPOINT	1 cr.
BUS 110	CUSTOMER SERVICE	3 cr.
MATHB065	FUNDAMENTALS OF BUSINESS MATHEMATICS	5 cr.

Total Required Credits: 23-27

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Business Technology – Legal Office

The dynamics of today's legal profession require a special class of employee who is a key member of the legal team and able to deal with the complex laws in our nation. Office professionals working in the legal field must be competent in computer applications software and legal document preparation. Clark Business Technology courses provide a solid foundation in using computers for all business and office applications.

A legal assistant/paralegal cannot give legal advice, represent a client in court, set a fee, or accept a case, functions generally considered the practice of law.

Students must complete all specifically listed courses and Major Area Requirements with a minimum grade of "C" or better in order to successfully complete the program and earn the award.

Refer to the Degree & Certificate Requirements Section of the Clark College Catalog to identify the courses needed to satisfy the General Education Requirements.

Business Technology – Legal Office (CP)

This program is designed for students who have had prior training in keyboarding. The program will build upon that skill, provide knowledge of legal terminology, and improve the ability to prepare legal forms.

If they have had no prior training, students should consider entering the two-year program. Prerequisites for enrollment: one year of keyboarding in high school or 55 wpm certified by taking a keyboarding test. Students will work in a law office part-time in the last quarter.

General Education Requirements

Communication Skills (3 credits required)

BTEC 107	BUSINESS ENGLISH	5 cr.
Computational Skills	(3 credits required)	
MATHB065	FUNDAMENTALS OF BUSINESS MATHEMATICS	5 cr.

Human Relations (3 credits required)

CMST& 230	SMALL GROUP COMMUNICATION	5 cr.
or CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.
Major Area R	equirements	
BTEC 102	DOCUMENT FORMATTING	1-3 cr.
BTEC 122	WORD FOR BUSINESS	5 cr.
BTEC 131	FILING AND RECORDS MANAGEMENT	3 cr.
BTEC 135	10-KEY CALCULATOR	1 cr.
BTEC 140	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 141	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 143	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 145	BUSINESS TECHNOLOGY SEMINAR	2 cr.
and BTEC 199	COOPERATIVE WORK EXPERIENCE	1-3 cr.
BTEC 150	COMPUTER BUSINESS APPLICATIONS	5 cr.
PRLE 101	INTRODUCTION TO LEGAL THEORY	3 cr.
PRLE 102	LEGAL ETHICS	3 cr.
PRLE 103	LEGAL RESEARCH	3 cr.
PRLE 151	LEGAL DOCUMENT PREPARATION	3 cr.
PRLE 209	INSURANCE CLAIMS CASE PREPARATION	3 cr.

Total Required Credits: 50-51

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Business Technology – Legal Administrative Assistant (AAS)

The legal administrative assistant prepares legal papers, summons, complaints, motions, and subpoenas. Specialized training includes the terminology and skills necessary to meet the demands of a legal administrative assistant. Students are trained for employment with a law firm or law-related office such as corporate legal departments of business firms, banks, insurance companies, and financial institutions. Better than average growth is anticipated for this occupation in the state, while a 25% increase is expected in the next decade.

General Education Requirements

Communication Skills (6 credits required)

ENGL& 101	ENGLISH COMPOSITION I	5 cr.
ENGL 212	BUSINESS COMMUNICATIONS	3 cr.
-	Education (3 credits required)	
Computational Sk	xills (3 credits required)	
MATHB065	FUNDAMENTALS OF BUSINESS MATHEMATICS	5 cr.
Human Relations	(3 credits required)	
CMST& 230	SMALL GROUP COMMUNICATION	5 cr.
	INTERPERSONAL COMMUNICATION	5 cr.
Humanities (3 cre	• •	
Social Sciences (3	credits required) **	
Natural Sciences (3 credits required)	

BTEC 010	SPEED AND ACCURACY BUILDING	1-3 cr.
BTEC 101	BEGINNING KEYBOARDING *	1-3 cr.
or BTEC 190	REFRESHER KEYBOARDING *	1-3 cr.
BTEC 102	DOCUMENT FORMATTING	1-3 cr.
BTEC 107	BUSINESS ENGLISH	5 cr.
BTEC 122	WORD FOR BUSINESS	5 cr.
BTEC 131	FILING AND RECORDS MANAGEMENT	3 cr.
BTEC 140	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 141	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 143	BUSINESS TECHNOLOGY SEMINAR	2 cr.
or BTEC 145	BUSINESS TECHNOLOGY SEMINAR	2 cr.
and BTEC 199	COOPERATIVE WORK EXPERIENCE	1-3 cr.
BTEC 150	COMPUTER BUSINESS APPLICATIONS	5 cr.
BTEC 170	EXCEL FOR BUSINESS	3 cr.
BTEC 175	ACCESS FOR BUSINESS	3 cr.
BTEC 211	ADMINISTRATIVE PROCEDURES	5 cr.
BUS& 101	INTRODUCTION TO BUSINESS	5 cr.
PRLE 101	INTRODUCTION TO LEGAL THEORY	3 cr.
PRLE 102	LEGAL ETHICS	3 cr.
PRLE 103	LEGAL RESEARCH	3 cr.
PRLE 151	LEGAL DOCUMENT PREPARATION	3 cr.
PRLE 209	INSURANCE CLAIMS CASE PREPARATION	3 cr.

Total Required Credits: 91-92

Business Technology - Medical Assistant

The Medical Assistant program is a four-quarter program that prepares students for both front-office clerical and back-office clinical medical assistant responsibilities. Students may take additional required courses to obtain an Associate Degree. Clark College's Medical Assistant Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), on recommendation of the Curriculum Review Board of the American Association of Medical Assistants Endowment (AAMAE). Successful graduates of Clark College's Medical Assisting Program are eligible to sit for the American Association of Medical Assistants (AAMA) Certified Medical Assistant Examination. Upon passing the exam, graduates will receive the Certified Medical Assistant (CMA) credential from the AAMA. This credential is recognized nationally by healthcare institutions. For more information refer to the following websites:

Commission on Accreditation of Allied Health Education Programs

www.caahep.org 1361 Park Street Clearwater, FL 33756 727-210-2350

^{*} Register for BTEC 100.

^{**} CMST courses may not count for more than two distribution areas of general education requirements. CMST& 210 can count for Humanities or Social Sciences; CMST& 230 can count for Humanities.

American Association of Medical Assistants

www.aama-ntl.org

Although applications are accepted at any time, only 30 applicants will be selected. Candidates who meet the preliminary requirements will be considered for winter quarter entry.

Minimum Requirements:

- Complete the Medical Assisting Application and Clark College Application and submit to the Admissions Office.
- Complete with a 2.0 or above all Preliminary Required Courses.
- Submit official high school transcript in sealed envelope or GED scores and official college transcript(s) from all colleges attended. Course credit hours and equivalency will be determined by Clark College. No applicant will be considered until all transcripts are received.
 - Take the Clark College COMPASS test. Call (360)992-2648 for more information. The following scores or equivalent coursework are required prior to program entry:
 - COMPASS score of 31 or higher in Math (Numerical Skills), OR completion of Math 030 or Math 065 with 2.0 or above.
- COMPASS score of 49 OR completion of ENGL 097 with a 2.0 or above.
- COMPASS score of 64 or high OR completion of READ 083 with a 2.0 or above.

Program Progression:

- Obtain a complete physical to verify proof of fitness. Contact the Health Services Center at Clark
 College or a personal physician for the physical. Submit physical results to the Medical Office Technology program office.
- Take sequentially numbered courses in order. Note: Some courses are offered during one (1) specific quarter each year.
- Complete all program courses with a minimum grade of "C" or better.
- Maintain a cumulative GPA of 2.00 or higher.
- Do not repeat any required program course more than once.
- Provide proof of all required immunization before registering for Medical Office Clinical Procedures I (BTEC 163).
- Complete or take concurrently all Medical Assistant Program courses before registering for Medical Assistant Directed Practice (BTEC 166).
- Before they can progress into BTEC 166 (Medical Assistant Directed Practice [summer quarter]),
 Medical Assistant students must provide a FBI Criminal Background Check dated no earlier than 30 days prior to the first day of class.

Business Technology – Medical Assistant (CP)

General Education Requirements

Communication Skills (3 credits required)

BTEC 087 APPLIED OFFICE ENGLISH 3 cr.

Computational Skills (3 credits required)

HEOC 011 MATH FOR MEDICATION ADMINISTRATION 1 cr.

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Human Relations (3 credits required)

BMED 166	MEDICAL ASSISTANT DIRECTED PRACTICE **	6 cr.
BTEC 147	PROFESSIONAL SELF-DEVELOPMENT	2 cr.
Major Area Re	equirements	
BMED 110	MEDICAL TERMINOLOGY I	3 cr.
BMED 111	MEDICAL TERMINOLOGY II	3 cr.
BMED 112	INTRODUCTION TO THE STUDY OF DISEASE	5 cr.
BMED 115	MEDICAL OFFICE ADMINISTRATIVE PROCEDURES	6 cr.
BMED 129	MEDICAL REIMBURSEMENT	5 cr.
BMED 134	MEDICAL OFFICE SEMINAR	1 cr.
BMED 137	THERAPEUTIC COMM SKILLS FOR HEALTH PROF	3 cr.
BMED 138	LEGAL ASPECTS OF THE MEDICAL OFFICE	2 cr.
BMED 139	CMA EXAMINATION REVIEW SEMINAR	1 cr.
BMED 163	MEDICAL OFFICE CLINICAL PROCEDURES I (with lab)	6 cr.
BMED 164	MEDICAL OFFICE CLINICAL PROCEDURES II (with lab)	6 cr.
BTEC 100	KEYBOARDING	1-3 cr.
BTEC 149	COMPUTER APPLICATIONS ESSENTIALS	3 cr.
HEOC 100	BASIC CONCEPTS OF ANATOMY AND PHYSIOLOGY *	3 cr.
and HEOC 101	BASIC CONCEPTS OF ANATOMY & PHYSIOLOGY LAB	1 cr.
HEOC 120	AIDS EDUCATION	1 cr.
HEOC 130	PHARMACOLOGY FOR HEALTH ASSISTANTS	3 cr.
HEOC 160	LABORATORY PROCEDURES FOR THE MEDICAL OFFICE (with lab)	4 cr.
FACPR032	FIRST AID AND HEALTH CARE PROVIDER CPR	1 cr.
Recommende	ed Electives	
BMED 130	MEDICAL CODING - CPT/HCPCS	4 cr.
BMED 132	MEDICAL CODING ICD-9-CM/ICD-10	5 cr.
HEOC 115	PHLEBOTOMY EDUCATION (with lab)	3 cr.
HEOC 199	COOPERATIVE WORK EXPERIENCE	1-5 cr.
Phlebotomy pract	icum required for phlebotomy certificate	******************

Total Required Credits: 76

Business Technology – Medical Assistant (AAS)

General Education Requirements

Communication Skills (6 credits required)

BTEC 087 APPLIED OFFICE ENGLISH 3 cr.

^{*} Students pursuing the A.A.S. degree should take BIOL 164/165 or another approved science elective. HEOC 100/101 will not satisfy degree requirements as outlined in the Clark College catalog.

^{**} Directed Practice is a non-paid, supervised work experience.

Health & Physical Ed	ucation (3 credits required)	
Computational Skills	(3 credits required)	
Human Relations (3	credits required)	
BMED 166	MEDICAL ASSISTANT DIRECTED PRACTICE	6 cr.
Humanities (3 credit	s required)	
Social Sciences (3 cre	edits required)	
PSYC& 100	GENERAL PSYCHOLOGY (recommended)	5 cr.
or PSYC& 200	LIFESPAN PSYCHOLOGY (recommended)	5 cr.
Natural Sciences (3 c	redits required)	
Note: BIOL 164/165 sa	atisfies the science requirement if taken as part of the Major Area Requ	irements.
Maior Area Dom	•	
Major Area Req		
BMED 110	MEDICAL TERMINOLOGY I	3 cr.
BMED 111	MEDICAL TERMINOLOGY II	3 cr.
BMED 112	INTRODUCTION TO THE STUDY OF DISEASE	5 cr.
BMED 115	MEDICAL OFFICE ADMINISTRATIVE PROCEDURES	6 cr.
BMED 129	MEDICAL REIMBURSEMENT	5 cr.
BMED 132	MEDICAL CODING ICD-9-CM/ICD-10	5 cr.
BMED 134	MEDICAL OFFICE SEMINAR	1 cr.
BMED 137	THERAPEUTIC COMM SKILLS FOR HEALTH PROF	3 cr.
BMED 138	LEGAL ASPECTS OF THE MEDICAL OFFICE	2 cr.
BMED 139	CMA EXAMINATION REVIEW SEMINAR	1 cr.
BMED 163	MEDICAL OFFICE CLINICAL PROCEDURES I (with lab)	6 cr.
BMED 164	MEDICAL OFFICE CLINICAL PROCEDURES II (with lab)	6 cr.
BTEC 100	KEYBOARDING	1-3 cr.
BTEC 147	PROFESSIONAL SELF-DEVELOPMENT	2 cr.
BTEC 149	COMPUTER APPLICATIONS ESSENTIALS	3 cr.
FACPR032	FIRST AID AND HEALTH CARE PROVIDER CPR	1 cr.
HEOC 011	MATH FOR MEDICATION ADMINISTRATION	1 cr.
HEOC 100	BASIC CONCEPTS OF ANATOMY AND PHYSIOLOGY *	3 cr.
and HEOC 101	BASIC CONCEPTS OF ANATOMY & PHYSIOLOGY LAB	1 cr.
HEOC 120	AIDS EDUCATION	1 cr.
HEOC 130	PHARMACOLOGY FOR HEALTH ASSISTANTS	3 cr.
HEOC 160	LABORATORY PROCEDURES FOR THE MEDICAL OFFICE (with lab)	4 cr.
Recommended	Electives	
BMED 130	MEDICAL CODING - CPT/HCPCS	4 cr.
BMED 132	MEDICAL CODING ICD-9-CM/ICD-10	5 cr.
HEOC 115	PHLEBOTOMY EDUCATION (with lab)	3 cr.

Phlebotomy practicum required for phlebotomy certificate.

Total Required Credits: 92-95

*Students pursuing the A.A.S. degree should take BIOL 164/165 or another approved science elective. HEOC 100/101 will not satisfy degree requirements as outlined in the Clark College catalog. ** Directed practice is a non-paid, supervised work experience.

Refer to the Degree and Certificate Requirements section in the Clark College Catalog to identify the courses needed to satisfy the general education requirements.

Business Technology-Medical Billing/Coding Specialist (CP)

The Medical Billing/Coding Specialist program prepares individuals for employment in the areas of medical insurance, physicians' office coding, and health care claims processing. This program also serves the needs of health care personnel interested in upgrading their professional skills. Training in medical billing, CPT-4, ICD-9-CM coding, and processing of insurance claims are included in the curriculum. Students may be enrolled in the program on a full-time or part-time basis. Graduates have marketable skills that will be in demand well into the 21st century. They are employed in physicians' offices, insurance companies, pharmacies, private medical laboratories, medical billing services, long-term care facilities, and hospitals.

General Education Requirements

Communication	Skills (3 credits	required)
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BTEC 087	APPLIED OFFICE ENGLISH	3 cr.
Computational	Skills (3 credits required)	
BMED 040	MATH FOR MEDICAL OFFICE ADMINISTRATORS	1 cr.
Human Relation	ns (3 credits required)	
BMED 226	DIRECTED PRACTICE *	3 cr.
BTEC 147	PROFESSIONAL SELF-DEVELOPMENT	2 cr.
Major Area	Requirements	
BMED 100	SURVEY OF HEALTH CARE DELIVERY	3 cr.
BMED 110	MEDICAL TERMINOLOGY I	3 cr.
BMED 111	MEDICAL TERMINOLOGY II	3 cr.
BMED 112	INTRODUCTION TO THE STUDY OF DISEASE	5 cr.
BMED 129	MEDICAL REIMBURSEMENT	5 cr.
BMED 130	MEDICAL CODING - CPT/HCPCS	4 cr.
BMED 132	MEDICAL CODING ICD-9-CM/ICD-10	5 cr.
BMED 134	MEDICAL OFFICE SEMINAR	1 cr.
BMED 138	LEGAL ASPECTS OF THE MEDICAL OFFICE	2 cr.
BMED 140	LEGAL ASPECTS OF HEALTH INFORMATION	2 cr.
BMED 222	HEALTH INFORMATION PROCEDURES	5 cr.
BTEC 135	10-KEY CALCULATOR	1 cr.
BTEC 149	COMPUTER APPLICATIONS ESSENTIALS	3 cr.
BIOL 164	HUMAN BIOLOGY	4 cr.

and BIOL 165	HUMAN BIOLOGY LAB	1 cr.
or HEOC 100	BASIC CONCEPTS OF ANATOMY AND PHYSIOLOGY	3 cr.
and HEOC 101	BASIC CONCEPTS OF ANATOMY & PHYSIOLOGY LAB	1 cr.
FACPR032	FIRST AID AND HEALTH CARE PROVIDER CPR	1 cr.
MATHB065	FUNDAMENTALS OF BUSINESS MATHEMATICS	5 cr.

Recommended Elective (Not Required)

BUS 110 CUSTOMER SERVICE 3 cr.

Total Required Credits: 55-57

Business Technology - Medical Office

The personal satisfaction gained from working in the medical office profession cannot be measured by material benefits alone. With the growing need for adequate medical care, qualified workers who know the business field and possess necessary medical-associated knowledge can find jobs in physicians' offices, clinics, hospitals, long-term facilities, health agencies, insurance companies, and other non-traditional health care settings. The availability of these positions continues to increase as patients draw on government aid and insurance programs to fund their health care and as health information becomes an increasingly vital element for the financing and quality management of health care.

Students must apply to the Medical Assistant program and meet minimum requirements.

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Refer to the Degree & Certificate Requirements Section of the Clark College Catalog to identify the courses needed to satisfy the General Education Requirements.

Business Technology – Health Information Assistant (CP)

This program trains individuals to work in a medical record department in a variety of health care settings. Individuals may also work as a health unit coordinator (unit secretary) in a hospital. Health information assistants assemble medical records; analyze records for completeness; file, retrieve and protect medical records; release patient information; maintain health care statistics; enter patient data; and do some basic coding.

General Education Requirements

Communication Skills (3 credits required)

ENICL 0 101

ENGL& 101	ENGLISH COMPOSITION I (Clark)	5 cr.
Computational S	Skills (3 credits required)	
BMED 040	MATH FOR MEDICAL OFFICE ADMINISTRATORS	1 cr.
Human Relation	s (3 credits required)	
CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.
or CMST& 230	SMALL GROUP COMMUNICATION	5 cr.
or CMST 212	ORAL COMMUNICATION IN BUSINESS	3 cr.

^{*}Directed Practice is a non-paid, supervised work experience. Refer to the Degree and Certificate Requirements section in the Clark College Catalog to identify the courses needed to satisfy the general education requirements.

BIOL 164	HUMAN BIOLOGY	4 cr.
BIOL 165	HUMAN BIOLOGY LAB	1 cr.
BMED 100	SURVEY OF HEALTH CARE DELIVERY	3 cr.
BMED 110	MEDICAL TERMINOLOGY I	3 cr.
BMED 111	MEDICAL TERMINOLOGY II	3 cr.
BMED 112	INTRODUCTION TO THE STUDY OF DISEASE	5 cr.
BMED 129	MEDICAL REIMBURSEMENT	5 cr.
BMED 130	MEDICAL CODING - CPT/HCPCS	4 cr.
BMED 132	MEDICAL CODING ICD-9-CM/ICD-10	5 cr.
BMED 133	INTERMEDIATE MEDICAL CODING	5 cr.
BMED 138	LEGAL ASPECTS OF THE MEDICAL OFFICE	2 cr.
BMED 140	LEGAL ASPECTS OF HEALTH INFORMATION	2 cr.
BMED 222	HEALTH INFORMATION PROCEDURES	5 cr.
BMED 299	CAPSTONE	2 cr.
BTEC 149	COMPUTER APPLICATIONS ESSENTIALS	3 cr.
FACPR032	FIRST AID AND HEALTH CARE PROVIDER CPR	1 cr.
HEOC 130	PHARMACOLOGY FOR HEALTH ASSISTANTS	3 cr.

Total Required Credits: 65-67

Business Technology - Medical Office Skills

Professional skills that can prepare students for the job market in just three months are available through the Clark College Business Technology department.

The Certificate of Completion is designed for students who wish to gain entry-level skills or for those who wish to upgrade their skills in a short period of time. Certificates of Completion typically consist of three to four courses. They are awarded by the department with the approval of the program advisory committee and the Office of Instruction. The courses can be taken simultaneously or individually as the student's schedule allows. Certificates of Completion are not recorded on the student's Clark College transcript.

Medical Office Skills Module I (CERT)

(Employment in Physicians Office Emphasis)

Major Area Requirements

BMED 110	MEDICAL TERMINOLOGY I	3 cr.
BMED 115	MEDICAL OFFICE ADMINISTRATIVE PROCEDURES	6 cr.
BMED 138	LEGAL ASPECTS OF THE MEDICAL OFFICE	2 cr.
BTEC 149	COMPUTER APPLICATIONS ESSENTIALS	3 cr.
or BTEC 150	COMPUTER BUSINESS APPLICATIONS	5 cr.
or BTEC 105	BEGINNING COMPUTER FUNDAMENTALS	3 cr.

Total Required Credits: 14-16

Program Competencies

- Basic knowledge of medical terminology, medical office billing, bookkeeping, and banking.
- Demonstrated ability to be a productive team member.
- Demonstrated ability to enter information and generate documents using medical office software, schedule patient appointments, perform reception duties, and manage patient information including legal aspect.

Medical Office Skills Module II (CERT)

(Employment in Hospital/Inpatient Office Emphasis)

Major Area Requirements

BMED 110	MEDICAL TERMINOLOGY I	3 cr.
BTEC 149	COMPUTER APPLICATIONS ESSENTIALS	3 cr.
or BTEC 150	COMPUTER BUSINESS APPLICATIONS	5 cr.
or BTEC 105	BEGINNING COMPUTER FUNDAMENTALS	3 cr.
BMED 222	HEALTH INFORMATION PROCEDURES	5 cr.

Total Required Credits: 11-13

Program Competencies

- Basic knowledge of medical terminology and an understanding of medical word structure.
- Demonstrated ability to be a productive team member.
- Basic knowledge of hospital organization, medical staff credentialing, patient registration, and admission.
- Demonstrated knowledge of patient record organization, quantitative analysis, abstraction of information, and ability to compute health care statistics.
- Basic knowledge of CPT/HCPCS and ICD coding systems.
- Demonstrated ability to use Microsoft Office Professional Suite 2003 including Word, Excel, Power-Point, and Access.

Business Technology-Medical Office Specialist (AAS)

General Education Requirements

Communication Skills (6 credits required)

BTEC 107	BUSINESS ENGLISH	5 cr.
Health & Physica	l Education (3 credits required)	
	kills (3 credits required)	
MATHB065	FUNDAMENTALS OF BUSINESS MATHEMATICS	5 cr.
Human Relations	s (3 credits required) (if not CMST& 210 or 230)	
Humanities (3 cr	edits required)	
CMST& 220	PUBLIC SPEAKING	5 cr.
or CMST& 230	SMALL GROUP COMMUNICATION (also HR or SS)	5 cr.
or CMST& 210	INTERPERSONAL COMMUNICATION (also HR)	5 cr.

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Social Sciences	(3	credits required)	(if	not	CMST&	230)
Social Sciences	ıs	creaits reduired)	ш	ποι	CIVISTA	2301

Natural Sciences ((3 credits required)	
BIOL 164	HUMAN BIOLOGY	4 cr.
and BIOL 165	HUMAN BIOLOGY LAB	1 cr.
Major Area R	equirements	
BMED 100	SURVEY OF HEALTH CARE DELIVERY	3 cr.
BMED 110	MEDICAL TERMINOLOGY I	3 cr.
BMED 111	MEDICAL TERMINOLOGY II	3 cr.
BMED 112	INTRODUCTION TO THE STUDY OF DISEASE	5 cr.
BMED 115	MEDICAL OFFICE ADMINISTRATIVE PROCEDURES	6 cr.
BMED 129	MEDICAL REIMBURSEMENT	5 cr.
BMED 130	MEDICAL CODING - CPT/HCPCS	4 cr.
BMED 132	MEDICAL CODING ICD-9-CM/ICD-10	5 cr.
BMED 134	MEDICAL OFFICE SEMINAR	1 cr.
BMED 138	LEGAL ASPECTS OF THE MEDICAL OFFICE	2 cr.
BMED 140	LEGAL ASPECTS OF HEALTH INFORMATION	2 cr.
BMED 222	HEALTH INFORMATION PROCEDURES	5 cr.
BMED 223	BEGINNING MEDICAL TRANSCRIPTION	2 cr.
BMED 224	ADVANCED MEDICAL TRANSCRIPTION	3 cr.
BMED 226	DIRECTED PRACTICE	3 cr.
BTEC 101	BEGINNING KEYBOARDING *	1-3 cr.
or BTEC 190	REFRESHER KEYBOARDING *	1-3 cr.
BTEC 122	WORD FOR BUSINESS	5 cr.
BTEC 135	10-KEY CALCULATOR	1 cr.
BTEC 147	PROFESSIONAL SELF-DEVELOPMENT	2 cr.
BTEC 150	COMPUTER BUSINESS APPLICATIONS	5 cr.
HEOC 130	PHARMACOLOGY FOR HEALTH ASSISTANTS	3 cr.
FACPR032	FIRST AID AND HEALTH CARE PROVIDER CPR	1 cr.
Recommendo	ed Electives (Not Required)	
BMED 137	THERAPEUTIC COMM SKILLS FOR HEALTH PROF	3 cr.
BUS 110	CUSTOMER SERVICE	3 cr.

^{*} Register for BTEC 100

Refer to the Degree & Certificate Requirements section in the Clark College Catalog to identify the courses needed to satisfy the General Education Requirements.

Business Technology-Medical Receptionist (CA)

A medical receptionist's primary duties consist of medical reception, appointment scheduling, and admitting patients in a medical office or hospital. Other duties include transcription, billing, filing, and general office duties. The field is constantly expanding with improving medical treatment and increasing access to medical care.

BMED 040	MATH FOR MEDICAL OFFICE ADMINISTRATORS	1 cr.
BMED 110	MEDICAL TERMINOLOGY I	3 cr.
BMED 111	MEDICAL TERMINOLOGY II	3 cr.
BMED 115	MEDICAL OFFICE ADMINISTRATIVE PROCEDURES	6 cr.
BMED 134	MEDICAL OFFICE SEMINAR	1 cr.
BMED 222	HEALTH INFORMATION PROCEDURES	5 cr.
BMED 223	BEGINNING MEDICAL TRANSCRIPTION	2 cr.
BMED 225	DIRECTED PRACTICE **	2 cr.
BTEC 101	BEGINNING KEYBOARDING *	1-3 cr.
or BTEC 190	REFRESHER KEYBOARDING *	1-3 cr.
BTEC 147	PROFESSIONAL SELF-DEVELOPMENT	2 cr.
BTEC 149	COMPUTER APPLICATIONS ESSENTIALS	3 cr.
CMST& 220	PUBLIC SPEAKING	5 cr.
or CMST& 230	SMALL GROUP COMMUNICATION	5 cr.
or CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.
FACPR032	FIRST AID AND HEALTH CARE PROVIDER CPR	1 cr.

Recommended Electives (Not Required)

BMED 137	THERAPEUTIC COMM SKILLS FOR HEALTH PROF	3 cr.
BMED 138	LEGAL ASPECTS OF THE MEDICAL OFFICE	2 cr.

Total Required Credits: 37

Business Technology-Medical Transcriptionist (CP)

This program trains individuals to function as specialists who may work for a research center, pharmaceutical company, hospital, health department agency, medical association, medical school, transcription service, or individual doctor. Medical transcriptionists type medical data, consultations, discharge summaries, operative reports, and medical correspondence.

General Education Requirements

Communication Skills (3 credits required)

BTEC 087	APPLIED OFFICE ENGLISH	3 cr.
Computational S	Skills (3 credits required)	
BMED 040	MATH FOR MEDICAL OFFICE ADMINISTRATORS	1 cr.
Human Relation	s (3 credits required)	
BMED 226	DIRECTED PRACTICE **	3 cr.
BTEC 147	PROFESSIONAL SELF-DEVELOPMENT	2 cr.

Major Area Requirements

BMED 110	MEDICAL TERMINOLOGY I	3 cr.

^{*} Register for BTEC 100.

^{**} Directed Practice is a non-paid, supervised work experience.

BMED 111	MEDICAL TERMINOLOGY II	3 cr.
BMED 112	INTRODUCTION TO THE STUDY OF DISEASE	5 cr.
BMED 134	MEDICAL OFFICE SEMINAR	1 cr.
BMED 138	LEGAL ASPECTS OF THE MEDICAL OFFICE	2 cr.
BMED 222	HEALTH INFORMATION PROCEDURES	5 cr.
BMED 223	BEGINNING MEDICAL TRANSCRIPTION	2 cr.
BMED 224	ADVANCED MEDICAL TRANSCRIPTION	3 cr.
BTEC 010	SPEED AND ACCURACY BUILDING	1-3 cr.
BTEC 101	BEGINNING KEYBOARDING *	1-3 cr.
or BTEC 190	REFRESHER KEYBOARDING *	1-3 cr.
BTEC 122	WORD FOR BUSINESS	5 cr.
BIOL 164	HUMAN BIOLOGY	4 cr.
and BIOL 165	HUMAN BIOLOGY LAB	1 cr.
and BIOL 011	BIOLOGY PRACTICUM	1-10 cr.
or HEOC 100	BASIC CONCEPTS OF ANATOMY AND PHYSIOLOGY	3 cr.
and HEOC 101	BASIC CONCEPTS OF ANATOMY & PHYSIOLOGY LAB	1 cr.
HEOC 130	PHARMACOLOGY FOR HEALTH ASSISTANTS	3 cr.
FACPR032	FIRST AID AND HEALTH CARE PROVIDER CPR	1 cr.
Recommende	ed Electives (Not Required)	
BMED 129	MEDICAL REIMBURSEMENT	5 cr.
DIVILO 127	MEDICAL REIMBORSEMENT	J CI.

^{*} Register for BTEC 100.

BTEC 149

Refer to the Degree and Certificate Requirements section in the Clark College Catalog to identify the courses needed to satisfy the general education requirements.

COMPUTER APPLICATIONS ESSENTIALS

Chemistry (Transfer)

Chemistry is the study of the properties of materials and the changes that materials undergo. One of the joys of learning chemistry is seeing how chemical principles operate in all aspects of daily life, from everyday activities like lighting a match to more far-reaching matters like the development of drugs to cure cancer or reduce environmental hazards.

People who have degrees in chemistry hold a variety of positions in industry, government, and academia. Those who work in the chemical industry find positions as laboratory chemists, carrying out experiments to develop new products (research and development), analyzing materials (quality control), or assisting customers in using products (sales and services). Analytical and control chemists usually have at least a bachelor's degree. Those with more experience or training may work as managers or company directors. They may also embark in the medical fields or the environmental sciences.

Clark College's Chemistry Department offers a multifaceted curriculum designed to meet a variety of needs -- from

3 cr.

Total Required Credits: 50-52

^{**} Directed Practice is a non-paid, supervised work experience.

those of students pursuing a health-related Applied Science Degree to requirements for earning an Associate in Science in Chemistry, Biology, Engineering, or Physics.

Chemistry (AST1)

This is a suggested program for the first two years of major study in chemistry. Lower-division course requirements will vary depending on the transfer institution. Contact an advisor at the transfer institution to determine required coursework as early as possible. Courses in computer applications are recommended for all students. Additional courses are needed to satisfy graduation requirements for the Associate in Science.

General Education Requirements

Communication Sk	xills (5 credits required)	
ENGL& 101	ENGLISH COMPOSITION I	5 cr.
Quantitative Skills	(10 credits required)	
MATH& 151	CALCULUS I	5 cr.
MATH& 152	CALCULUS II	5 cr.
Health & Physical E	ducation (3 credits required)	
Humanities & Socia	al Sciences (15 credits required)	
CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.
or CMST& 220	PUBLIC SPEAKING	5 cr.
or CMST& 230	SMALL GROUP COMMUNICATION	5 cr.
GERM& 121	GERMAN I	5 cr.
Pre-Major Pro	gram Requirements	
CHEM& 141	GENERAL CHEMISTRY I	4 cr.
CHEM& 142	GENERAL CHEMISTRY II	4 cr.
CHEM& 143	GENERAL CHEMISTRY III	4 cr.
CHEM& 151	GENERAL CHEMISTRY LABORATORY I	1 cr.
CHEM& 152	GENERAL CHEMISTRY LABORATORY II	1 cr.
CHEM& 153	GENERAL CHEMISTRY LABORATORY III	2 cr.
PHYS& 221	ENGINEERING PHYSICS	5 cr.
PHYS& 222	ENGINEERING PHYSICS	5 cr.
PHYS& 223	ENGINEERING PHYSICS	5 cr.
Science Electiv	ves	
CHEM& 241	ORGANIC CHEMISTRY I	4 cr.
CHEM& 242	ORGANIC CHEMISTRY II	4 cr.
CHEM& 243	ORGANIC CHEMISTRY III	4 cr.
CHEM& 251	ORGANIC CHEMISTRY LABORATORY I	1 cr.
CHEM& 252	ORGANIC CHEMISTRY LABORATORY II	1 cr.
CHEM& 253	ORGANIC CHEMISTRY LABORATORY III	2 cr.

Other Electives- 0-11 credits

or another langua	age	
GERM& 123	GERMAN III **	5 cr.
GERM& 122	GERMAN II *	5 cr.
MATH& 254	CALCULUS IV	5 cr.
MATH 221	DIFFERENTIAL EQUATIONS	5 cr.
MATH 111	COLLEGE ALGEBRA	5 cr.
or ENGL& 235	TECHNICAL WRITING	5 cr.
or ENGL 109	WRITING ABOUT THE SCIENCES	5 cr.
ENGL& 102	ENGLISH COMPOSITION II	5 cr.

Total Required Credits: 105

Chemistry Education (AST1)

The following is a degree program designed by a consortium of two-year and four-year colleges in Washington. Students should be aware that baccalaureate institutions may have slightly different requirements for these degrees, and students should consult the transfer institution for exact questions.

Students should complete the entirety of any science sequence at the same school for best transferability. These degrees are not DTA degrees, and there are some general education requirements that students will need to finish upon transfer.

Though this degree does not require such, Clark College students should know that the standard Clark AS degree path has these differences from the Articulated Degree defined below:

• Clark requires 3 credits of Health-Physical Education coursework.

Students must also meet the residency requirements as established by Clark. While Clark College has approved offering the degree below, Clark students should keep these requirements in mind should their transfer pathways change.

Students completing this Associate of Science will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the direct transfer associate degree and will be given junior status by the receiving institution.

Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring.

For more information, please visit the Major Related Programs/Articulated Degrees section of this catalog.

Generic Requirements

A. Basic Requirements

1. Communication Skills	5 cr.
2. Quantitative/Symbolic Reasoning	5 cr.
Intermediate algebra proficiency is required.	

B. Distribution Requirements

^{*}CMST& 230 would count as a social science; otherwise, the third course needs to be a social science.

^{**} Please check with the transfer institution regarding foreign language requirements.

1. Humanities/Fine Arts/English & Social Sciences

15 cr.

15 credits of humanities and social science with at least 5 credits taken from each. Three different subjects required. No more than 5 credits of performance classes are allowed.

2. Science Pre-major Requirement

- Chemistry for science majors sequence (15 quarter credits)
- Third quarter calculus or approved statistics course (5 quarter credits)
- Biology for science majors or physics (calculus or non-calculus based) (15 quarter credits)
- Additional requirements: 10 15 quarter credits in physics, geology, organic chemistry, biology, or mathematics, consisting of courses normally taken for science majors (not general education), preferably in a 2- or 3-quarter sequence

Articulated Degree Requirements

A. Basic Requirements

1. English Composition	5 cr.
2. Calculus	10 cr.
Intermediate algebra proficiency is required.	

B. Distribution Requirements

1. Humanities/Fine Arts/English & Social Sciences

15 cr.

5 quarter credits Introductory Speech

5 quarter credits General Psychology

C. Electives

1. Elective Courses

10-15 credits, depending on pathways above.

5 additional quarter credits of English composition.

Field Experience or Intro to Education recommended.

Clark College Equivalents

1. Communication Skills

ENGL& 101	ENGLISH COMPOSITION I	5 cr.
2. Quantitative/Sy	mbolic Reasoning Requirement	
MATH& 151	CALCULUS I	5 cr.
MATH& 152	CALCULUS II	5 cr.
1. Humanities/Find	e Arts/English and Social Sciences	
CMST& 220	PUBLIC SPEAKING	5 cr.
PSYC& 100	GENERAL PSYCHOLOGY	5 cr.
2. Science Pre-maj	jor Requirement	
CHEM& 141	GENERAL CHEMISTRY I	4 cr.
CHEM& 142	GENERAL CHEMISTRY II	4 cr.
CHEM& 143	GENERAL CHEMISTRY III	4 cr.
CHEM& 151	GENERAL CHEMISTRY LABORATORY I	1 cr.

CHEM& 152	GENERAL CHEMISTRY LABORATORY II	1 cr.
CHEM& 153	GENERAL CHEMISTRY LABORATORY III	2 cr.
CHEM& 241	ORGANIC CHEMISTRY I	4 cr.
CHEM& 242	ORGANIC CHEMISTRY II	4 cr.
CHEM& 243	ORGANIC CHEMISTRY III	4 cr.
CHEM& 251	ORGANIC CHEMISTRY LABORATORY I	1 cr.
CHEM& 252	ORGANIC CHEMISTRY LABORATORY II	1 cr.
CHEM& 253	ORGANIC CHEMISTRY LABORATORY III	2 cr.
PHYS& 221	ENGINEERING PHYSICS	5 cr.
PHYS& 222	ENGINEERING PHYSICS	5 cr.
PHYS& 223	ENGINEERING PHYSICS	5 cr.
MATH& 153	CALCULUS III	5 cr.
or MATH 203	DESCRIPTIVE STATISTICS	3 cr.
and MATH 204	INFERENTIAL STATISTICS	3 cr.
C. Electives		
1. Elective Courses		
ENGL& 102	ENGLISH COMPOSITION II Required	5 cr.
EDUC& 201	INTRODUCTION TO EDUCATION Recommended	3 cr.
and EDUC 210	INTRODUCTORY FIELD EXPERIENCE Recommended	3 cr.
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Notes

A. Basic Requirements

1. Quantitative/Symbolic Reasoning Requirement

Pre-Calculus courses do not meet this requirement.

B. Distribution Requirements

1. Humanities/Fine Arts/English & Social Sciences

Courses in Humanities/Social Science must come from the current ICRC distribution list in order to count as General Education or General University Requirements (GERs/GURs) at the receiving institution. Additional general educational requirements, cultural diversity requirements, and foreign language requirements, as required by the transfer institution, must be met prior to the completion of a baccalaureate degree.

C. Electives

1. Elective Courses

A maximum of five (5) quarter credits of "gray area" courses will be accepted in the remaining credits category.

Communication Studies (Transfer)

Working with people requires excellent verbal communication skills. Communication skills are some of the most important skills employers look for in college students preparing for the workplace, regardless of major or degree. Clark College offers courses in interpersonal, small group, and public speaking, as well as studies in mass communi-

cation, cross-cultural, and persuasion theory.

Effective communication is vital for success in most careers. Communication Studies courses enhance many degree programs and can help students develop skills that are beneficial for a variety of different fields. Students pursuing an associate in arts, an applied science degree, or a certificate of proficiency can benefit from Communication Studies courses, and many four-year degree programs require that students take at least one Communication Studies course.

Students pursuing a four-year degree in Communication Studies are strongly advised to consult a Communication Studies faculty member and an advisor from their transfer institution for assistance in planning their degree program.

Competitive Speaking and Debate Team

Students who enjoy public speaking will find a prestigious home on the Clark College Competitive Speaking and Debate Team. The team has a long history of success, having won state, regional, and national championships. The team's notoriety extends around the globe, as team members have traveled to Italy, Spain, Czech Republic, and Great Britain to compete.

Students are encouraged to join the team to improve public speaking and critical thinking abilities, as well to as increase confidence and poise. For more information, contact the speech and debate director at 360-992-2285.

Career Opportunities

Students often ask, "What can I do with a communication degree?" Choosing the best educational path to a satisfying job and successful career can be difficult for a student. In a national survey of 1,000 human resource managers, oral communication skills are identified as valuable for both obtaining information and successful job performance. Fortune 500 executives indicate that college students need better communication skills, as well as the ability to work in teams and with people from diverse backgrounds. A degree in communication is useful for the following careers:

Administrative Services Advertising

College Professor Community Affairs

Conflict Resolution Specialist Consulting
Customer Service Government
Health Communication Hotel Management
Human Development International Relations

Lobbyist Marketing
Marriage Counselor Mediation
Negotiator Police Officer
Politics Public Relations
Radio & Television Broadcasting Social Services

Communication Studies Courses

Many Clark students earn their Associate in Arts degree at Clark, transfer to a four-year institution with a junior standing and go on to earn their bachelor's degree in communication. Communication Studies department courses typically transfer to four-year institutions. However, students should contact their transfer institution to clarify each course's transferability.

Computer Aided Design & Drafting Technology

Drafting and design activities are central to eventual creation of physical parts and structures. Designs, communicated through drawings which have been drafted and detailed, give rise to mechanical parts and assemblies, architectural building structures, bridges, roads and highways, and a seemingly infinite array of consumer products. Almost every company involved with design and/or manufacturing has one or more design/drafting positions, and those companies use computer aided drafting & design (CADD) software applications as their primary design and

drafting tool.

Clark College offeres CADD Certificate of Proficiency programs in three areas: architectural, civil, and mechanical. Each of these programs is structured to prepared the student for entry-level work as a CADD technician. CADD Technology department personnel strive to take your personal goals into account, and will work with you to customize your degree requirements if warranted. This program is a professional-technical program and we try to provide the best real-world environment we can. Our teaching and open lab facilities boast fine equipment and each type of CADD software we teach is kept up to its current educational version. The program requires a co-op, or internship, for graduation. This experience -- driven by you, the student -- can be vital in gaining successful employment. After gaining experience, many people are successful in setting up their own contract design/drafting businesses. Other find that greater challenges are available in engineering or architecture, and go on to pursue further education in those fields. Some see CADD work as a means to support themselves as they continue that education.

General Preparation

Since many of the program courses are computer-based, students should be comfortable using a computer before entering any of these certificate programs. If interested, contact a CADD department faculty advisor to help you in your career and course-scheduling decisions. Placement testing is required to determine if mathematical and reading levels are adequate for the required courses, or if remedial coursework must be first completed. Interested high school students should prepare themselves by taking mathematics (algebra and geometry), physics, and drafting in particular.

Architectural Computer-Aided Drafting & Design (CP)

General Education Requirements

Communication Skills (3 credits required)

ENGL 135	INTRODUCTION TO TECHNICAL WRITING	5 cr.
Computational S	Skills (3 credits required)	
MATH 103	COLLEGE TRIGONOMETRY	5 cr.
Human Relation	s (3 credits required)	
HDEV 198	PORTFOLIO DEVELOPMENT	1 cr.
HDEV 200	PROFESSIONAL DEVELOPMENT	2 cr.
Major Area I	Requirements	
CADD 101	CADD ORIENTATION	1 cr.
CADD 102	CADD CAREERS	1 cr.
CADD 110	BASIC SKETCHUP	4 cr.
CADD 140	BASIC AUTOCAD (same as ENGR 140, formerly ENGR 114)	4 cr.
CADD 141	ARCHITECTURAL DRAFTING 1 W/AUTOCAD	4 cr.
CADD 145	AUTOCAD ARCHITECTURE	4 cr.
CADD 170	BASIC REVIT	4 cr.
CADD 199	COOPERATIVE WORK EXPERIENCE (formerly ADT)	1-5 cr.
CADD 207	PRESENTATION GRAPHICS	4 cr.
CADD 210	ARCHITECTURAL DRAFTING 2	3 cr.
CADD 214	AUTOCAD CUSTOMIZATION	3 cr.
ENGR 113	ENGINEERING SKETCHING AND VISUALIZATION	2 cr.

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Civil Computer-Aided Drafting & Design (CP)

General Education Requirements

Communication Skills (3 credits required)

Communication	Skills (3 credits required)	
ENGL 135	INTRODUCTION TO TECHNICAL WRITING	5 cr.
Computational S	Skills (3 credits required)	
MATH 103	COLLEGE TRIGONOMETRY	5 cr.
Human Relation	s (3 credits required)	
HDEV 198	PORTFOLIO DEVELOPMENT	1 cr.
HDEV 200	PROFESSIONAL DEVELOPMENT	2 cr.
Major Area F	Requirements	
CADD 101	CADD ORIENTATION	1 cr.
CADD 102	CADD CAREERS	1 cr.
CADD 130	BASIC MICROSTATION	4 cr.
CADD 140	BASIC AUTOCAD (same as ENGR 140, formerly ENGR 114)	4 cr.
CADD 143	CIVIL DRAFTING 1 WITH AUTOCAD	4 cr.
CADD 170	BASIC REVIT	4 cr.
CADD 199	COOPERATIVE WORK EXPERIENCE	1-5 cr.
CADD 207	PRESENTATION GRAPHICS	4 cr.
CADD 214	AUTOCAD CUSTOMIZATION	3 cr.
CADD 230	CIVIL DRAFTING 2	3 cr.
ENGR 113	ENGINEERING SKETCHING AND VISUALIZATION	2 cr.
SURV 100	INTRODUCTION TO GPS	2 cr.
SURV 102	FUNDAMENTALS OF SURVEY (increase from 2-3 credits in 2009)	2 cr.

Total Required Credits: 53

Mechanical Computer-Aided Drafting & Design (CP)

General Education Requirement

Communication Skills (3 credits required)

ENGL 135	INTRODUCTION TO TECHNICAL WRITING	5 cr.
Computational	Skills (3 credits required)	
MATH 103	COLLEGE TRIGONOMETRY	5 cr.
Human Relation	ns (3 credits required)	
HDEV 198	PORTFOLIO DEVELOPMENT	1 cr.
HDEV 200	PROFESSIONAL DEVELOPMENT	2 cr.

Major Area Requirements

CADD 101	CADD ORIENTATION	1 cr.
CADD 102	CADD CAREERS	1 cr.
CADD 140	BASIC AUTOCAD (same as ENGR 140, formerly ENGR 114)	4 cr.
CADD 144	MECHANICAL DRAFTING 1 WITH AUTOCAD	4 cr.
CADD 150	BASIC SOLIDWORKS (same as ENGR 150)	4 cr.
CADD 154	MECHANICAL DRAFING 1 WITH SOLIDWORKS	4 cr.
CADD 155	INTERMEDIATE SOLIDWORKS - TOP DOWN DESIGN	4 cr.
CADD 160	INTRODUCTION TO CAM	2 cr.
CADD 199	COOPERATIVE WORK EXPERIENCE	1-5 cr.
CADD 207	PRESENTATION GRAPHICS	4 cr.
CADD 240	MECHANICAL DRAFTING 2	3 cr.
ENGR 113	ENGINEERING SKETCHING AND VISUALIZATION	2 cr.
ENGR 115	GEOMETRIC DIMENSIONING AND TOLERANCING	2 cr.

Computer and Electrical Pre-Engineering (Transfer)

Electrical & Computer Engineers design, develop and analyze computer, electrical and electronic systems. These engineers work within multi-disciplinary teams and are employed in all industries. Their projects include power generation and distribution, communications systems, robotics, nano- and micro-electrical machinery, Biosystems, semiconductors, automation and robotics, networking, embedded systems and general computer system.

Computer and Electrical pre-Engineering (AST2)

The following is a degree program designed by a consortium of two-year and four-year colleges in Washington. Students should be aware that baccalaureate institutions may have slightly different requirements for these degrees, and students should consult the transfer institution for exact questions.

Students should complete the entirety of any science sequence at the same school for best transferability. These degrees are not DTA degrees, and there are some general education requirements that students will need to finish upon transfer.

Though this degree does not require such, Clark College students should know that the standard Clark AST degree path has this difference from the Articulated Degree defined below:

• Clark requires 3 credits of Health-Physical Education coursework.

Students must also meet the residency requirements as established by Clark. While Clark College has approved offering the degree below, Clark students should keep these requirements in mind should their transfer pathways change.

Students completing this Associate of Science will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the direct transfer associate degree and will be given junior status by the receiving institution.

It is critical that you work with an Engineering faculty advisor to ensure your program will give you the maximum benefit when you transfer.

For more information, please visit the Major Related Programs/Articulated Degrees section of this catalog.

Generic Requirements

A. Basic Requirements

1. Communication Skills 5 cr.

2. Mathematics 10 cr.

Two courses at or above introductory calculus level. Third-quarter calculus or approved statistics course: 5 quarter credits chosen with the help of an Engineering faculty advisor based on the requirements of the specific discipline at the baccalaureate institution the student plans to attend.

3. Physics 15 cr.

Calculus-based or non-calculus based sequence including laboratory. Students should be advised that some baccalaureate programs require physics with calculus.

4. Chemistry with Laboratory 5 cr.

5. Required Major Courses

B. Distribution Requirements

1. Humanities 15 cr.

C. Electives

1. Elective Courses

The remaining quarter credits should be planned with the help of an Engineering faculty advisor based on the requirements of the specific discipline at the baccalaureate institution the student selects to attend.

For Engineering disciplines, these credits should include a design component consistent with ABET accreditation standards, as approved by the Engineering faculty advisor.

Articulated Degree Requirements

A. Basic Requirements

1. English Composition 5 cr.

2. Mathematics

Calculus I, II, III - 15 credits

Differential Equations - 5 credits

Linear Algebra - 5 credits

3. Physics

Engineering Physics 1, 2, 3 + labs - 15 to 18 credits

4. Chemistry with Laboratory

General Chemistry I + labs - 5 credits

5. Required Major Courses

Electrical Circuits - 4-5 credits

Computer Programming - 4-5 credits

B. Distribution Requirements

1. Humanities/Fine Arts/English and Social Sciences

Minimum 15 quarter credits:

Minimum 5 credits in Humanities, minimum 5 credits in Social Science, plus an additional 5 credits in either Humanities or Social Science for a total of 15 credits.

C. Electives

1. Math. Science & Engr. Electives

20-25 cr.

Select 5 electives as appropriate for intended major and intended baccalaureate institution:

- A second course in Computer Programming object oriented 4-5 credits
- Innovation in Design
- Calculus IV (Advanced or Multi-variable Calculus)
- Technical Writing
- Statics
- Dynamics
- Thermodynamics
- Digital Logic
- Biology for Science Majors I + labs
- General Chemistry II + lab
- Applied Numerical Methods
- Microprocessors

Clark College Equivalents

A. Basic Requirements

1. Communication Skills

ENGL& 101	ENGLISH COMPOSITION I	5 cr.
2. Mathematics		
MATH& 151	CALCULUS I	5 cr.
MATH& 152	CALCULUS II	5 cr.
MATH& 153	CALCULUS III	5 cr.
MATH 215	LINEAR ALGEBRA	5 cr.
MATH 221	DIFFERENTIAL EQUATIONS	5 cr.
3. Physics		
PHYS& 221	ENGINEERING PHYSICS	5 cr.
PHYS& 222	ENGINEERING PHYSICS	5 cr.
PHYS& 223	ENGINEERING PHYSICS	5 cr.
4. Chemistry wit	:h Laboratory	
CHEM& 141	GENERAL CHEMISTRY I	4 cr.
CHEM& 151	GENERAL CHEMISTRY LABORATORY I	1 cr.
5. Required Majo	or Courses	
ENGR& 204	ELECTRICAL CIRCUITS	5 cr.

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CSE 121 INTRODUCTION TO C 5 cr.

B. Distribution Requirements

1. Humanities/Fine Arts/English & Social Sciences

A course in Economics is recommended (ECON& 201 or 202).

PHIL& 106 is strongly recommended as the Humanities course.

C. Electives

1. Required at Clark MATH& 254 (5 cr.) - Calculus IV

Other electives as advised dependent on transfer institution.

Notes

A. Basic Requirements

2. Mathematics

Clark requires concurrent enrollment of completion in MATH& 254 when taking MATH 221.

MATH 103 and MATH 111 are required prerequisites for MATH& 151 that may be needed if calculus placement is not met via COMPASS.

3. Physics

Clark requires concurrent enrollment in PHYS 094, 095, and 096.

B. Distribution Requirements

1. Humanities

Courses taken must come from the current ICRC distribution list in order to count as General Education or General University Requirements (GER's/GUR's) at the receiving institution. Additional general educational requirements, cultural diversity requirements, and foreign language requirements, as required by the receiving institution, must be met prior to the completion of a baccalaureate degree.

Total Required Credits: 95-104

Computer Graphics Technology

The Computer Graphics Technology (CGT) program at Clark College provides hands-on learning with technologies used to create visual graphics, develop integrated media, and produce design solutions. Students taking our courses have an interest in computer graphics, multimedia, web design or graphic design. Our students' needs range from wanting specific software training, to acquiring a set of skills, to pursuing a certificate or degree.

CGT offers Career and Technical Education programs designed to prepare students for employment in various creative and technical disciplines. Our curriculum consists of two specialized certificate programs in Web Design or Graphic Design. These certificates can lead to one of our comprehensive AAT degrees in Web and Graphic Design or Web Design & Development. Students may also be interested in the ART Department's Associate in Fine Arts (AFA) transfer degree in Graphic Design.

Students are encouraged to meet with a CGT program advisor to discuss options, help plan your course schedule, tour the facilities, and talk with current students. Students must complete all Major Area Requirements with a minimum grade of "C" or better in order to successfully complete the program and earn the award. Refer to the Degree & Certificate Requirement Section of the Clark College catalog to identify the courses needed to satisfy the General Education Requirements.

Web Design and Development (AAT)

The Web Design & Development AAT Degree prepares students for professional practice in the field of web design. The program builds a first-year foundation of aesthetic and technical skills in web design and integrated media. The second year provides further study in web technologies, site development and functionality. Essential skills are developed through practical hands-on experience, real client project work, a focus on professional skills and building a portfolio of work. Graduates can seek employment as freelance web designers, web production coordinators, content managers or publishers, web entrepreneurs, or entry-level web designers.

General Education Requirements

Communication S	skills (5 credits required)	
ENGL& 101	ENGLISH COMPOSITION I	5 cr.
or ENGL 135	INTRODUCTION TO TECHNICAL WRITING	5 cr.
Computational Sk	xills (5 credits required)	
CTEC 121	INTRO TO PROGRAMMING & PROBLEM SOLVING	5 cr.
Human Relations	(5 credits required)	
CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.
or CMST& 230	SMALL GROUP COMMUNICATION	5 cr.
Major Area R	equirements	
Fine Art Foundati	ons	
ART 110	CREATIVITY AND CONCEPT	3 cr.
ART 115	TWO-DIMENSIONAL DESIGN	4 cr.
ART 118	TIME-BASED ART AND DESIGN	3 cr.
Computer Graphi	cs Technology	
CGT 101	PHOTOSHOP RASTER GRAPHICS	4 cr.
CGT 102	ILLUSTRATOR VECTOR GRAPHICS	3 cr.
CGT 104	WEB MULTIMEDIA CONTENT I	4 cr.
CGT 201	WEB VIDEO PRODUCTION	4 cr.
CGT 204	WEB MULTIMEDIA CONTENT II	4 cr.
Graphic Design		
ART 172	GRAPHIC DESIGN EXPLORATION	4 cr.
ART 215	PORTFOLIO DEVELOPMENT	3 cr.
Web Design		
CTEC 122	HTML FUNDAMENTALS	3 cr.
CGT 105	USER EXPERIENCE DESIGN	3 cr.
CGT 106	SOCIAL MEDIA EXPLORATION	3 cr.
CGT 205	WEB DESIGN I	4 cr.
CGT 206	WEB DESIGN II	4 cr.
CGT 207	EMERGING WEB TECHNOLOGIES	3 cr.
CGT 214	PROFESSIONAL PRACTICES	3 cr.

Web Development

CTEC 120	BEGINNING PROGRAMMING	2 cr.
CTEC 126	INTRODUCTION TO WEB SCRIPTING	5 cr.
CTEC 127	INTRODUCTION TO PHP	4 cr.
CTEC 227	ADVANCED PHP	4 cr.
CTEC 280	SELECTED TOPICS (5 credits)	1-6 cr.

Total Required Credits: 97-99

Web & Graphic Design (AAT)

The Web & Graphic Design AAT degree prepares students for professional practice in the field of visual communications. The program builds a first-year foundation of aesthetic and technical skills and progresses into advanced study of web and graphic design practices. Students learn to effectively communicate ideas and information in a variety of traditional, digital, print, web and other media formats. Essential skills are developed through practical hands-on experience, real client project work, a focus on professional skills and building a portfolio of work. Graduates can seek employment as freelance designers, production designers or coordinators, content managers or publishers, marketing communications specialists, or entry-level web or graphic designers.

General Education Requirements

Communication Skills (5 credits required)

ENGL& 101	ENGLISH COMPOSITION I	5 cr.
or ENGL 135	INTRODUCTION TO TECHNICAL WRITING	
Computational Skills	s (5 credits required)	
Human Relations (5	credits required)	
CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.
or CMST& 230	SMALL GROUP COMMUNICATION	5 cr.

Major Area Requirements

Fine Art Foundations

ART 110	CREATIVITY AND CONCEPT	3 cr.
ART 115	TWO-DIMENSIONAL DESIGN	4 cr.
ART 118	TIME-BASED ART AND DESIGN	3 cr.
Computer Graphi	ics Technology	
CGT 100	GRAPHIC DESIGN TECHNOLOGY I	4 cr.
CGT 104	WEB MULTIMEDIA CONTENT I	4 cr.
CGT 200	GRAPHIC DESIGN TECHNOLOGY II	4 cr.
CGT 201	WEB VIDEO PRODUCTION	4 cr.
CGT 204	WEB MULTIMEDIA CONTENT II	4 cr.
Graphic Design		
ART 172	GRAPHIC DESIGN EXPLORATION	4 cr.
ART 173	GRAPHIC DESIGN STUDIO I	4 cr.
ART 174	TYPOGRAPHY	4 cr.

ART 215	PORTFOLIO DEVELOPMENT	3 cr.
ART 271	PUBLICATION DESIGN	4 cr.
ART 274	GRAPHIC DESIGN STUDIO III	4 cr.
Web Design		
CTEC 122	HTML FUNDAMENTALS	3 cr.
CGT 105	USER EXPERIENCE DESIGN	3 cr.
CGT 106	SOCIAL MEDIA EXPLORATION	3 cr.
CGT 205	WEB DESIGN I	4 cr.
CGT 206	WEB DESIGN II	4 cr.
CGT 207	EMERGING WEB TECHNOLOGIES	3 cr.
CGT 214	PROFESSIONAL PRACTICES	3 cr.
or CGT 240	CAPSTONE PRACTICUM	3 cr.

Web Design (CP)

The Web Design Certificate prepares students to create web graphics, integrate media, and design websites. The program provides a foundation of aesthetic and technical skills through the study of visual design concepts, multimedia technologies and web design practices. Essential skills are developed through practical hands-on experience, real client project work, a focus on professional skills and building a portfolio of work. Graduates can seek employment as a freelance web designer, production artist, web content designer, e-marketing assistant, or other web-related production and support roles within a business.

General Education Requirements

Communication Skills (3 credits required)

ENGL& 101	ENGLISH COMPOSITION I	
or ENGL 135	INTRODUCTION TO TECHNICAL WRITING	5 cr.
Computational S	kills (3 credits required)	
CTEC 122	HTML FUNDAMENTALS	3 cr.
Human Relations	s (3 credits required)	
CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.
or CMST& 230	SMALL GROUP COMMUNICATION 5	

Major Area Requirements

Fine Art Foundations

ART 110	CREATIVITY AND CONCEPT	3 cr.
ART 115	TWO-DIMENSIONAL DESIGN	4 cr.
ART 118	TIME-BASED ART AND DESIGN	3 cr.
Computer Graphics		
CGT 101	PHOTOSHOP RASTER GRAPHICS	4 cr.
CGT 102	ILLUSTRATOR VECTOR GRAPHICS	3 cr.
CGT 104	WEB MULTIMEDIA CONTENT I	4 cr.

CGT 201	GT 201 WEB VIDEO PRODUCTION	
CGT 204	WEB MULTIMEDIA CONTENT II	4 cr.
Graphic Design		
ART 172	GRAPHIC DESIGN EXPLORATION	4 cr.
ART 215	PORTFOLIO DEVELOPMENT	3 cr.
Web Design		
CGT 105	USER EXPERIENCE DESIGN	3 cr.
CGT 106	SOCIAL MEDIA EXPLORATION	3 cr.
CGT 205	WEB DESIGN I	4 cr.
CGT 206	WEB DESIGN II	4 cr.
CGT 214	PROFESSIONAL PRACTICES	3 cr.
or CGT 240	CAPSTONE PRACTICUM	3 cr.

Graphic Design (CP)

The Graphic Design Certificate prepares students to conceptualize ideas, create original artwork, and develop visual design solutions. The program provides a foundation of aesthetic and technical skills through the study of fine art principles, the design process and graphic design practices. Essential skills are developed through practical hands-on experience, contextual project work, a focus on professional skills and building a portfolio of work. Graduates can seek employment as freelance graphic designers, production artists, digital graphics specialists, marketing assistants, or other graphic art production and support roles within a business.

General Education Requirements

Communication	Skills	(3	credits re	eauired)
Communication	211113		CICAICSI	cquii cu/

ENGL& 101	11 ENGLISH COMPOSITION I		
or ENGL 135	INTRODUCTION TO TECHNICAL WRITING	5 cr.	
Computational Skill	ls (3 credits required)		
CTEC 122	HTML FUNDAMENTALS	3 cr.	
Human Relations (3	credits required)		
CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.	
or CMST& 230	SMALL GROUP COMMUNICATION		

Major Area Requirements

Fine Art Foundations

ART 103	DRAWING I	3 cr.
ART 110	CREATIVITY AND CONCEPT	3 cr.
ART 115	TWO-DIMENSIONAL DESIGN	4 cr.
ART 145	DIGITAL PHOTOGRAPHY I	3 cr.
	ohics Technology	
CGT 100	GRAPHIC DESIGN TECHNOLOGY I	4 cr.
CGT 101	PHOTOSHOP RASTER GRAPHICS	4 cr.
CGT 101	PHOTOSHOP RASTER GRAPHICS	4 cr. 4 cr.

CGT 102 ILLUSTRATOR VECTOR GRAPHICS		3 cr.
CGT 200	GRAPHIC DESIGN TECHNOLOGY II	4 cr.
Graphic Design		
ART 172	GRAPHIC DESIGN EXPLORATION	4 cr.
ART 173	GRAPHIC DESIGN STUDIO I	4 cr.
ART 174	TYPOGRAPHY	4 cr.
ART 208	DIGITAL ILLUSTRATION	4 cr.
ART 215	PORTFOLIO DEVELOPMENT	3 cr.
ART 273	GRAPHIC DESIGN STUDIO II	4 cr.
CGT 214	PROFESSIONAL PRACTICES	3 cr.
or CGT 240	CAPSTONE PRACTICUM	3 cr.

Computer Science (Transfer)

Computers are an integral part of most human activities and professions. Therefore, a wide variety of career opportunities are available to the computer science professionals who are commonly referred to as computer scientists.

Computer scientists are responsible for analyzing requirements, planning, developing high-level design, writing, and testing the program that delivers the expected results. Computer scientists may be involved with support and maintenance of the solutions.

Computer scientists are employed in all industries such as manufacturing, finance, service, retail, gaming, and others. Typically, computer scientists work with other professionals in order to develop solutions that meet business and customer requirements.

Computer science specialties include:

- Artificial intelligence
- Computer vision
- Database
- Graphics and animation
- Embedded systems
- Networking
- Operating Systems
- Program languages and compilers
- Robotics

Computer Science (AST2)

This is a suggested program for the first two years of a four-year Computer Science program. These lower-division course requirements will vary depending on the math and English placement at Clark College, and on the requirements of the four-year institution to which you transfer. It is critical that you work with a Computer Science and Engineering faculty advisor to ensure your program will give you the maximum benefit when you transfer. Additional courses are needed to satisfy graduation requirements for the Associate in Science degree.

General Education Requirements

Communication Skills (5 credits required)

ENGL& 101 ENGLISH COMPOSITION I 5 cr.

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Quantitative Skills (10 credits required)

MATH& 151	CALCULUS I	5 cr.
MATH& 152	CALCULUS II	5 cr.
Health & Physica	ll Education (3 credits required)	
Humanities & So	cial Science (15 credits required)	
Pre-Major Pi	rogram Requirements - 25 credits	
MATH& 153	CALCULUS III	5 cr.
PHYS& 221	ENGINEERING PHYSICS	5 cr.
PHYS& 222	ENGINEERING PHYSICS	5 cr.
PHYS& 223	ENGINEERING PHYSICS	5 cr.
Additional Scien	се	5 cr.
Computer So	cience Electives	
CSE 120	INTRO TO ELECTRICAL/COMPUTING	5 cr.
CSE 121	INTRODUCTION TO C	5 cr.
CS& 131	COMPUTER SCIENCE I C++	5 cr.
CS& 141	COMPUTER SCIENCE I JAVA	5 cr.
CSE 222	INTRODUCTION TO DATA STRUCTURES	5 cr.
CSE 223	DATA STRUCTURES & OBJECT-ORIENTED PROGRAMMING	5 cr.
CSE 224	PROGRAMMING TOOLS	5 cr.
ENGR& 204	ELECTRICAL CIRCUITS	5 cr.
ENGR 250	DIGITAL LOGIC DESIGN	5 cr.
ENGR 270	DIGITAL SYSTEMS AND MICROPROCESSORS	5 cr.
MATH 215	LINEAR ALGEBRA	5 cr.

Total Required Credits: 90

Requirements vary by school and program. See an Engineering faculty advisor regarding proper selection.

Computer Technology

The Computer Technology (CTEC) department at Clark College offers training in a variety of foundational and content-specific topics relating to general computer literacy and fluency, computer operating systems interactions, programming, databases, web technology, and networking. Our course offerings serve a variety of missions: to enhance and expand an individual student's skill set, to serve as a prerequisite or requirement for another area of study, to be a component course in one of the programs offered by this department.

CTEC currently offers the Computer Support Specialist program with degree and certificate options to provide students with skills for employment as computer technicians, help desk workers and other technical support roles. The department also offers a certificate in Web Programming and an AAT degree in Web Design and Development, collaboratively delivered with the Computer Graphics Technology (CGT) department.

Student considering options in computer-related careers should meet with a program advisor to consider which CTEC courses or programs may benefit them in their training and career exploration. CTEC course offerings can help provide a foundational understanding and set of skills in computer technology that will help them make

informed decisions on career choices in other Clark College computer-related programs offered by Networking Technology (DNET), Computer Graphics Technology (CGT), and Business Technology (BTEC), as well as on transfer opportunities in Computer Science and Information Technology.

For CTEC degrees and certificates, students must complete all major area requirements with a minimum grade of "C" or better in order to successfully complete the program and earn the award. Students should refer to the Degree & Certificate Requirements Section of the Clark College Catalog to identify the courses needed to satisfy the General Education Requirements for our program offerings.

Computer Support Specialist (CP)

This program is designed for students for careers as computer support technicians and specialists who offer services and support for a company or organization. Support specialists install, configure and maintain hardware and software as well as diagnose, troubleshoot, and resolve computer-related problems. The Computer Support Specialist Certificate of Proficiency at Clark College features training in foundational skills, based on computer industry certifications; an emphasis on customer service; and work experience in a computer help desk setting.

Students interested in the Computer Support Specialist program should obtain advising before entering the program.

INTRODUCTION TO TECHNICAL WRITING

General Education Requirements

Communication	Skills (3 credits	required)

or ENGL& 101	ENGLISH COMPOSITION I	5 cr.
-	xills (3 credits required)	
MATH 090	ELEMENTARY ALGEBRA	5 cr.
	(3 credits required)	
CMST& 230	SMALL GROUP COMMUNICATION	5 cr.
or CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.

Introductory Courses

ENGL 135

BTEC 149	COMPUTER APPLICATIONS ESSENTIALS	3 cr.
CTEC 100	INTRODUCTION TO COMPUTING	3 cr.
CTEC 101	COMPUTING ESSENTIALS	2 cr.
CTEC 102	INTRODUCTION TO WINDOWS	3 cr.
CTEC 103	INTRODUCTION TO MAC/OS	3 cr.
CTEC 104	PC SUPPORT CUSTOMER SERVICE SKILLS	3 cr.
CTEC 110	COMMAND LINE ESSENTIALS FOR WINDOWS AND UNIX	3 cr.

Major Area Requirements

CTEC 150	INTRO TO LOCAL AREA NETWORKS	3 cr.
CTEC 200	PC HELP DESK WORK EXPERIENCE	1-5 cr.
DNET 221	CISCO CCNA 1: NETWORK FUNDAMENTALS	6 cr.
DNET 232	COMPTIA A+ COMPUTER SUPPORT TECHNICIAN	6 cr.
DNET 252	PC TECHNICIAN A+ EXAM PREP	2 cr.

Total Required Credits: 57

5 cr.

Computer Support Specialist (AAS)

This program is designed for students for careers as computer support technicians and specialists who offer services and support for a company or organization. Support specialists install, configure and maintain hardware and software as well as diagnose, troubleshoot, and resolve computer-related problems. The Computer Support Specialist Associate of Applied Science at Clark College features training in foundational skills based on computer industry certifications. It also features an emphasis on support for a variety of platforms and network settings. Students in the program will gain practical experience in help desk and other service environments.

Students interested in the Computer Support Specialist program should obtain advising before entering the program.

General Education Requirements

ociiciai Eaac	ation requirements	
Communication S	kills (6 credits required)	
ENGL& 101	ENGLISH COMPOSITION I	5 cr.
or ENGL 135	INTRODUCTION TO TECHNICAL WRITING	5 cr.
Health & Physical	Education (3 credits required)	
Computational Sk	cills (3 credits required)	
MATH 090	ELEMENTARY ALGEBRA	5 cr.
or MATH 095	INTERMEDIATE ALGEBRA	5 cr.
Human Relations	(3 credits required)	
Humanities (3 cred	dits required)	
CMST& 230	SMALL GROUP COMMUNICATION	5 cr.
or CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.
Social Sciences (3	credits required)	3 cr.
Natural Sciences (3 credits required)	
Introductory	Courses	
BTEC 149	COMPUTER APPLICATIONS ESSENTIALS	3 cr.
CTEC 100	INTRODUCTION TO COMPUTING	3 cr.
CTEC 101	COMPUTING ESSENTIALS	2 cr.
CTEC 102	INTRODUCTION TO WINDOWS	3 cr.
CTEC 103	INTRODUCTION TO MAC/OS	3 cr.
CTEC 104	PC SUPPORT CUSTOMER SERVICE SKILLS	3 cr.
CTEC 110	COMMAND LINE ESSENTIALS FOR WINDOWS AND UNIX	3 cr.
Major Area Re	equirements	
CTEC 115	INTERNET RESEARCH AND LIVING ONLINE	2 cr.
CTEC 121	INTRO TO PROGRAMMING & PROBLEM SOLVING	5 cr.
CTEC 140	INTRODUCTION TO UNIX	5 cr.
CTEC 141	UNIX SYSTEM ADMINISTRATION	5 cr.
CTEC 181	INTRODUCTION TO DATABASE DESIGN USING ACCESS	5 cr.
CTEC 200	PC HELP DESK WORK EXPERIENCE	1-5 cr.
CTEC 295	CAPSTONE EXPERIENCE	1-3 cr.

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DNET 221	CISCO CCNA 1: NETWORK FUNDAMENTALS	6 cr.
DNET 232	COMPTIA A+ COMPUTER SUPPORT TECHNICIAN	6 cr.
DNET 252	PC TECHNICIAN A+ EXAM PREP	2 cr.

Web Programming (CA)

This certificate is designed to provide foundational training in key technologies related to web programming and web development.

All students interested in this program option should obtain advising prior to pursuing this certificate.

Major Area Requirements

CTEC 121	INTRO TO PROGRAMMING & PROBLEM SOLVING	5 cr.
CTEC 122	HTML FUNDAMENTALS	3 cr.
CTEC 126	INTRODUCTION TO WEB SCRIPTING	5 cr.
CTEC 127	INTRODUCTION TO PHP	4 cr.
CTEC 140	INTRODUCTION TO UNIX	5 cr.
CTEC 181	INTRODUCTION TO DATABASE DESIGN USING ACCESS	5 cr.
CTEC 199	COOPERATIVE WORK EXPERIENCE	1-5 cr.
or CTEC 290	SPECIAL PROJECTS	1-5 cr.
CTEC 227	ADVANCED PHP	4 cr.
CTEC 241	SCRIPTING WITH PERL	5 cr.
HDEV 200	PROFESSIONAL DEVELOPMENT	2 cr.

Total Required Credits: 43

Web Design & Development (AAT)

This degree is delivered in collaboration with the Computer Graphics Technology (CGT) program.

All interested students should obtain advising prior to pursuit of this degree.

General Education Requirements

Communication Skills (5 credits required)

ENGL& 101	ENGLISH COMPOSITION I	5 cr.
or ENGL 135	INTRODUCTION TO TECHNICAL WRITING	5 cr.
-	kills (5 credits required)	
CTEC 121	INTRO TO PROGRAMMING & PROBLEM SOLVING	5 cr.
	s (5 credits required)	
CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.
or CMST& 230	SMALL GROUP COMMUNICATION	5 cr.

Major Area Requirements

Fine Art Foundations

ART 110	CREATIVITY AND CONCEPT	3 cr.
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ART 115	TWO-DIMENSIONAL DESIGN	4 cr.
ART 118	TIME-BASED ART AND DESIGN	3 cr.
Computer Graphics	Technology	
CGT 101	PHOTOSHOP RASTER GRAPHICS	4 cr.
CGT 102	ILLUSTRATOR VECTOR GRAPHICS	3 cr.
CGT 104	WEB MULTIMEDIA CONTENT I	4 cr.
CGT 201	WEB VIDEO PRODUCTION	4 cr.
CGT 204	WEB MULTIMEDIA CONTENT II	4 cr.
Graphic Design		
ART 172	GRAPHIC DESIGN EXPLORATION	4 cr.
ART 215	PORTFOLIO DEVELOPMENT	3 cr.
Web Design		
CTEC 122	HTML FUNDAMENTALS	3 cr.
CGT 105	USER EXPERIENCE DESIGN	3 cr.
CGT 106	SOCIAL MEDIA EXPLORATION	3 cr.
CGT 205	WEB DESIGN I	4 cr.
CGT 206	WEB DESIGN II	4 cr.
CGT 207	EMERGING WEB TECHNOLOGIES	3 cr.
CGT 214	PROFESSIONAL PRACTICES	3 cr.
or CGT 240	CAPSTONE PRACTICUM	3 cr.
Web Development		
CTEC 120	BEGINNING PROGRAMMING	2 cr.
CTEC 126	INTRODUCTION TO WEB SCRIPTING	5 cr.
CTEC 127	INTRODUCTION TO PHP	4 cr.
CTEC 227	ADVANCED PHP	4 cr.
CTEC 280	SELECTED TOPICS (5 credits)	1-6 cr.

Construction Technology

The Construction Technology program provides entry-level training for those who are interested in the construction industry. Instruction is a blend of theory and lab which includes both technical and professionalism skills necessary to apply for entry-level positions in the industry.

During the first year, the students will study units in safety, applied mathematics, tool usage, codes, cost estimation, and the development of building plans. In addition, the students will apply these skills during a variety of hands-on projects. The projects are a toolbox, scale model house, and several utility sheds. Besides an emphasis in residential carpentry, the students will explore several of the trades such as electrical, sheet metal, and tile. During the first year, students will also have several opportunities to work on the student house project and other large structures.

If selected to return for the second year, the students will continue to develop leadership and professionalism skills as they build a residential home in the community. Additional skills such as advanced applied mathematics, cost estimation, employment relationships, and sound work habits are emphasized.

Upon completion of this program, students will have entry-level skills necessary to get and maintain a career in the construction industry. The program has articulation agreements with several of the local apprenticeship programs for advanced placement dependent on final grades and instructor recommendation.

Graduates may find employment with contractors, suppliers, retail outlets, or building maintenance companies.

All CNST courses are taught at the Clark County Skills Center (12200 NE 28th Street, Vancouver) and follow the Skills Center's calendar for class days, hours, and breaks (except CNST 106 & 108). There is a lab fee and students are required to purchase a tool set and have valid health insurance.

Students must complete all Major Area Requirements and specifically listed courses with a minimum grade of "C" or better in order to successfully complete the program and earn the award.

Refer to the Degree & Certificate Requirements Section of the Clark College Catalog to identify the courses needed to satisfy the General Education Requirements.

Construction Technology (CP)

General Education Requirements

Communication Skills (3 credits required)

Computational S	Skills (3 credits required)	
MATH 085	INDUSTRIAL MATHEMATICS	5 cr.
Human Relation	s (3 credits required)	
Major Area F	Requirements	

,		
CNST 106	BLUEPRINT READING	3 cr.
CNST 108	JOB ESTIMATING AND SCHEDULING	3 cr.
CNST 111	CONSTRUCTION TECHNOLOGY I	6 cr.
CNST 112	CONSTRUCTION TECHNOLOGY I LAB	6 cr.
CNST 121	CONSTRUCTION TECHNOLOGY II	6 cr.
CNST 122	CONSTRUCTION TECHNOLOGY II LAB	6 cr.
CNST 131	CONSTRUCTION TECHNOLOGY III	6 cr.
CNST 132	CONSTRUCTION TECHNOLOGY III LAB	6 cr.
CNST 211	CONSTRUCTION TECHNOLOGY IV	6 cr.
CNST 212	CONSTRUCTION TECHNOLOGY IV LAB	6 cr.
CNST 221	CONSTRUCTION TECHNOLOGY V	6 cr.
CNST 222	CONSTRUCTION TECHNOLOGY V LAB	6 cr.
CNST 231	CONSTRUCTION TECHNOLOGY VI	6 cr.
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CONSTRUCTION TECHNOLOGY VI LAB

Total Required Credits: 89

Construction Technology (AAS)

General Education Requirements

Communication Skills (6 credits required)

Health & Physical Education (3 credits required)

Computational Skills (3 credits required)

INDUSTRIAL MATHEMATICS

CONSTRUCTION TECHNOLOGY III

CONSTRUCTION TECHNOLOGY IV

CONSTRUCTION TECHNOLOGY V

CONSTRUCTION TECHNOLOGY VI

CONSTRUCTION TECHNOLOGY III LAB

CONSTRUCTION TECHNOLOGY IV LAB

CONSTRUCTION TECHNOLOGY V LAB

CONSTRUCTION TECHNOLOGY VI LAB

MATH 085

CNST 131

CNST 132

CNST 211

CNST 212

CNST 221

CNST 222

CNST 231

CNST 232

Human Relation	ns (3 credits required)	
Humanities (3 c	redits required)	
Social Sciences	(3 credits required)	
Natural Science	es (3 credits required)	
Major Area	Requirements	
CNST 106	BLUEPRINT READING	3 cr.
CNST 108	JOB ESTIMATING AND SCHEDULING	3 cr.
CNST 111	CONSTRUCTION TECHNOLOGY I	6 cr.
CNST 112	CONSTRUCTION TECHNOLOGY I LAB	6 cr.
CNST 121	CONSTRUCTION TECHNOLOGY II	6 cr.
CNST 122	CONSTRUCTION TECHNOLOGY II LAB	6 cr.

Total Required Credits: 104

5 cr.

6 cr.

Construction Technology (AAT)

General Education Requirements

Communication Skills (5 credits required)

Computational Skills (5 credits required)

Human Relations (5 credits required)

Major Area Requirements

CNST 106	BLUEPRINT READING	3 cr.
CNST 108	JOB ESTIMATING AND SCHEDULING	3 cr.
CNST 111	CONSTRUCTION TECHNOLOGY I	6 cr.
CNST 112	CONSTRUCTION TECHNOLOGY I LAB	6 cr.
CNST 121	CONSTRUCTION TECHNOLOGY II	6 cr.
CNST 122	CONSTRUCTION TECHNOLOGY II LAB	6 cr.
CNST 131	CONSTRUCTION TECHNOLOGY III	6 cr.
CNST 132	CONSTRUCTION TECHNOLOGY III LAB	6 cr.

CNST 211	CONSTRUCTION TECHNOLOGY IV	6 cr.
CNST 212	CONSTRUCTION TECHNOLOGY IV LAB	6 cr.
CNST 221	CONSTRUCTION TECHNOLOGY V	6 cr.
CNST 222	CONSTRUCTION TECHNOLOGY V LAB	6 cr.
CNST 231	CONSTRUCTION TECHNOLOGY VI	6 cr.
CNST 232	CONSTRUCTION TECHNOLOGY VI LAB	6 cr.

Culinary Arts - Baking/Bakery Management

Clark College's curriculum in cooking, retail baking, bakery management, and restaurant management has been awarded best-in-the-state honors by the National Restaurant Association. Students may prepare for jobs in all phases of the hospitality industry including restaurants, country clubs, wholesale and retail bakeries, and hotels.

The curriculum's success can also be measured by tracing the careers of its graduates. A number have been employed by leading hotel chains. Others work as executive chef, sous chef, bakery managers, and bakers with popular local restaurants and bakeries. Some have opened their own businesses.

Students must complete all Major Area Requirements with a minimum grade of "C" or better in order to successfully complete the program and earn the award.

Refer to the Degree & Certificate Requirements Section of the Clark College Catalog to identify the courses needed to satisfy the General Education Requirements.

Baking/Bakery Management

The Baking/Bakery Management program offers baking and cake decorating courses leading to jobs in the baking industry, or jobs as bakers in the hospitality industry. Instruction consists of theory and practical experience in the baking laboratory, which is operated as a simulated retail bakery. A large variety of breads, cakes, pastries, and cookies are produced and sold in the bakery store to campus students, staff, faculty members, and guests.

Baking Skills (CERT)

Certificates of Completion

Please consult the Culinary Arts Department for more information about short-term certificates in Baking.

Baking Skills (CA)

Certificates of Achievement

A Certificate of Achievement is awarded to students who complete any combination of two Certificates of Completion. Please consult the Culinary Arts Department for more information.

Baking (CP)

Students must complete three of the four quarters listed below:

General Education Requirements

Communication Skills (3 credits required)

Computational Skills (3 credits required)

Human Relations (3 credits required)

Major Area Requirements

First C	()uarter
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BAK 111	BAKING THEORY	5 cr.
BAK 110	BAKING LAB	10 cr.
Second Quarter	r	
BAK 113	BAKING THEORY	5 cr.
BAK 112	BAKING LAB	10 cr.
Third Quarter		
BAK 115	BAKING THEORY	5 cr.
BAK 114	BAKING LAB	10 cr.
Fourth Quarter		
BAK 117	BAKING THEORY	5 cr.
BAK 116	BAKING LAB	10 cr.

Total Required Credits: 54

Bakery Management (CP)

In addition to completing all Major Area Requirement courses for the Certificate of Proficiency-Baking, students must also complete three of the four quarters listed below:

General Education Requirements

	CI :II /		
Communication	Skills (:	3 credits	required)

Computational Skills (3 credits required)
Human Relations (3 credits required)

Major Area Requirements

Fifth Quarter

BAK 211	BAKERY MANAGEMENT THEORY	5 cr.
BAK 210	BAKERY MANAGEMENT LAB	10 cr.
Sixth Quarter		
BAK 213	BAKERY MANAGEMENT THEORY	5 cr.
BAK 212	BAKERY MANAGEMENT LAB	10 cr.
Seventh Quarter		
BAK 215	BAKERY MANAGEMENT THEORY	5 cr.
BAK 214	BAKERY MANAGEMENT LAB	10 cr.
Eighth Quarter		
BAK 217	BAKERY MANAGEMENT THEORY	5 cr.
BAK 216	BAKERY MANAGEMENT LAB	10 cr.

Total Required Credits: 99

Bakery Management (AAS)

In addition to completing all Major Area Requirement courses for the Certificate of Proficiency-Baking AND the Certificate of Proficiency-Bakery Management, students must also complete the following General Education Requirements:

General Education Requirements

Communication Skills (6 credits required)	
Health & Physical Education (3 credits required)	
Computational Skills (3 credits required)	
Human Relations (3 credits required)	
Humanities (3 credits required)	
Social Sciences (3 credits required)	

Suggested Extra Courses

Natural Sciences (3 credits required)

BAK 120	BEGINNING CAKE DECORATING	3 cr.
BAK 122	INTERMEDIATE CAKE DECORATING	3 cr.
BAK 124	ADVANCED CAKE DECORATING	3 cr.
BAK 126	PASTRY ART	3 cr.

Total Required Credits: 111-114

Baking/Bakery Management (AAT)

In addition to completing all Major Area Requirement courses for the Certificate of Proficiency-Baking AND the Certificate of Proficiency-Bakery Management, students must also complete the following related instructional requirements:

Related Instructional Requirements

Communication Skills (5 credits required)							
Computational Skills (5 credits required)	 		 		 		
Human Relations (5 credits required)	 		 	 	 	 	
	_	_	_		_	 _	40-

Total Required Credits: 105

Culinary Arts - Cooking/Restaurant Management

Clark College's curriculum in cooking, retail baking, bakery management, and restaurant management has been awarded best-in-the-state honors by the National Restaurant Association. Students may prepare for jobs in all phases of the hospitality industry including restaurants, country clubs, wholesale and retail bakeries, and hotels.

The curriculum's success can also be measured by tracing the careers of its graduates. A number have been employed by leading hotel chains. Others work as executive chefs, sous chefs, bakery managers, and bakers with popular local restaurants and bakeries. Some have opened their own businesses.

Students must complete all Major Area Requirements with a minimum grade of "C" or better in order to successfully complete the program and earn the award.

Refer to the Degree & Certificate Requirements Section of the Clark College Catalog to identify the courses needed to satisfy the General Education Requirements.

Cooking/Restaurant Management

Commercial preparation and service of food is the world's largest industry, employing many skilled men and women. The principles and practices of restaurant cuisine are studied in the day-to-day operation of the Clark College kitchen. The program teaches the skills of preparing meats, salads, desserts, vegetables, sauces, all the standard recipes, and also a great variety of gourmet dishes. Students get practice in buying supplies, cutting meats, utilizing all materials economically, and maintaining and controlling inventory accounts, writing menus, security controls, supervision of employees, and every phase of cost controls. Advanced placement is awarded to students with prior culinary arts schooling.

Students must complete all Major Area Requirements with a minimum grade of "C" or better in order to successfully complete the program and earn the award.

Cooking Skills (CERT)

Certificates of Completion

Please consult the Culinary Arts Department for more information about short-term certificates in Cooking.

Cooking Skills (CA)

Certificates of Achievement

A Certificate of Achievement will be awarded to students who complete any combination of two Certificates of Completion. Please consult the Culinary Arts Department for more information.

Cooking - Option I (CP)

Students must complete three of the four quarters listed below plus an additional nine credits of General Education Requirements.

General Education Requirements

Communication Skills (3	credits required)
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Computationa	l Skills ((3 credits ı	required)
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Human Relations (3 credits required)

Major Area Requirements

First Quarter

FOOD 102	FOOD SERVICE	4 cr.
FOOD 111	COOKING THEORY	5 cr.
FOOD 112	FOOD PRODUCTION	4 cr.
FOOD 120	KITCHEN SET-UP	2 cr.
Second Quarter		
FOOD 103	FOOD SERVICE	4 cr.
FOOD 113	COOKING THEORY	5 cr.
FOOD 114	FOOD PRODUCTION	4 cr.
FOOD 121	KITCHEN SET-UP	2 cr.

Third Quarter FOOD 104 FOOD SERVICE 4 cr. **FOOD 115 COOKING THEORY** 5 cr. **FOOD 116** FOOD PRODUCTION 4 cr. **FOOD 122** KITCHEN SET-UP 2 cr. **Fourth Quarter FOOD 105 FOOD SERVICE** 4 cr. **FOOD 117 COOKING THEORY** 5 cr. FOOD 118 FOOD PRODUCTION 4 cr. **FOOD 123** KITCHEN SET-UP 2 cr. **Extra Courses** These are not required courses. **FOOD 134 SOUPS AND SAUCES** 3 cr. **FOOD 140** WINE APPRECIATION 3 cr. **FOOD 199** COOPERATIVE WORK EXPERIENCE 1-5 cr. **FOOD 235 BEGINNING MEAT CUTTING** 3 cr. **FOOD 236** INTERMEDIATE MEAT CUTTING 3 cr.

Total Required Credits: 63

3 cr.

1-12 cr.

Restaurant Management - Option II (CP)

SPECIAL PROJECTS

ADVANCED MEAT CUTTING

In addition to completing all Major Area Requirement courses for the Certificate of Proficiency-Cooking (Option I), students must also complete three of the four quarters listed below:

General Education Requirements

Communication	on Skills (3	credits r	equired)

Computational Skills (3 credits required)

Human Relations (3 credits required)

Major Area Requirements

Fifth Quarter

FOOD 237

FOOD 290

FOOD 223	MANAGEMENT THEORY	5 cr.
FOOD 240	RESTAURANT MANAGEMENT	8 cr.
FOOD 250	ADVANCED KITCHEN SET-UP	2 cr.
Sixth Quarter		
FOOD 225	MANAGEMENT THEORY	5 cr.
FOOD 241	RESTAURANT MANAGEMENT	8 cr.
FOOD 251	ADVANCED KITCHEN SET-UP	2 cr.

Seventh Quarter

FOOD 227	MANAGEMENT THEORY	5 cr.
FOOD 242	RESTAURANT MANAGEMENT	8 cr.
FOOD 252	ADVANCED KITCHEN SET-UP	2 cr.
Eighth Quarter		
FOOD 229	MANAGEMENT THEORY	5 cr.
FOOD 243	RESTAURANT MANAGEMENT	8 cr.
FOOD 253	ADVANCED KITCHEN SET-UP	2 cr.

Total Required Credits: 108

Cooking/Restaurant Management (AAS)

In addition to completing all Major Area Requirement courses for the Certificate of Proficiency-Cooking (Option I) AND the Certificate of Proficiency-Restaurant Management (Option II), students must also complete the following General Education Requirements:

General Education Requirements

Communication Skills (6 credits required)

Health & Physical Education (3 credits required)

Computational Skills (3 credits required)

Human Relations (3 credits required)

Humanities (3 credits required)

Social Sciences (3 credits required)

Natural Sciences (3 credits required)

Total Required Credits: 120-123

Cooking/Restaurant Management (AAT)

In addition to completing all Major Area Requirement courses for the Certificate of Proficiency-Cooking (Option I) AND the Certificate of Proficiency-Restaurant Management (Option II), students must also complete the following General Education Requirements:

General Education Requirements

Communication Skills (5 credits required)

Computational Skills (5 credits required)

Human Relations (5 credits required)

Total Required Credits: 105

Dining Room Service Program (CERT)

The Dining Room Service program is designed so that students can enter in any quarter. With the completion of FOOD 131, 132, and 133, students will have the necessary entry-level job skills to work as a waiter or waitress.

Major Area Requirements

FOOD 131	DINING ROOM THEORY	4 cr.
FOOD 132	DINING ROOM PRODUCTION	5 cr.
FOOD 133	DINING ROOM SERVICE	5 cr.
	,	Total Required Credits: 14

Dental Hygiene

A career as a hygienist offers a wide range of opportunities. Services provided by dental hygienists include patient assessment procedures, exposing and developing radiographs, removing calculus and biofilm from all surfaces of the teeth, managing and treating periodontally involved conditions, placing and applying dental restorative materials, applying preventive materials to the teeth, teaching patients appropriate oral hygiene to maintain oral health, nutrition counseling, taking impressions, performing documentation and office management activities, and developing and implementing community oral health programs.

The Dental Hygiene program is accredited by the Commission on Dental Accreditation of the American Dental Association, a specialized accrediting body recognized by the Council on Postsecondary Accreditation and the United States Department of Education. Graduates receive an Associate in Applied Science degree and may complete requirements for the Associate in Arts degree, which will transfer directly to four-year universities within the state of Washington. Those completing the program qualify to take national, regional, and state board examinations for licensure and are prepared to enter clinical practice. The program includes all responsibilities allowed by Washington state law.

Clinical experience takes place in Clark College's dental hygiene clinic under the supervision of licensed dentists and dental hygienists. Other clinical or community sites are used for limited educational experiences

Application Process

The Dental Hygiene program is a seven-quarter clinical program with preliminary requirements that must be taken before program entry. Admission to the program is outlined in two stages: preliminary requirements and final program admission.

Preliminary Requirements

To meet preliminary entrance requirements, candidates must:

- Complete the Clark College Application for Admission and Statement of Intent forms. Return to the Clark College Welcome Center with the non-refundable program application fees (amount subject to change). For the current fee amounts, please visit the Dental Hygiene website at www.clark.edu/ dentalhygiene.
- Application deadline for Clark College's Dental Hygiene program is January 8th of every year for the
 upcoming fall quarter. Students MUST have no more than 10 credits left of preliminary coursework
 to complete by the end of winter quarter to qualify for selection into the following fall class.
- Complete ENGL& 101 with a 2.0 or higher grade.
- Earn a cumulative GPA of 2.75 or higher and an applicable science GPA of 2.25 or higher.
- All science courses must be seven (7) years current upon program entry.
- Send all official college transcripts to the Credential Evaluations Office for complete transcript evaluation, and continue to send updated transcripts quarterly as courses are completed.
- Complete courses listed under Preliminary Required Courses with a 2.0 or above. (Students can have a maximum of 10 credits of preliminary required coursework to complete after winter quarter to be eligible for selection into the following fall's Dental Hygiene class.)
- The most recent educational experience will be used to meet admission criteria.

Program Progression

In order to progress from one course or quarter to the next after beginning the Dental Hygiene program, student must achieve a grade of 2.0 or higher in all required courses and maintain a cumulative GPA of 2.0 or higher.

General Information

Selection criteria are subject to change. For complete updated information, please refer to the application booklet, available online at www.clark.edu.

Disability Statement for Health Occupations

In accordance with the Americans with Disabilities Act and the Rehabilitation Act of 1973, accommodations for students with disabilities will be considered at the student's request. The student may need to provide documentation of disability to the Disability Support Services Office to support his/her accommodation requests. Documentation guidelines and procedures can be found at www.clark.edu/dss. Once the student is qualified by DSS as having a disability, requested accommodations will be considered. Accommodations for the classroom, laboratory, or clinical setting will be evaluated according to reasonableness. Accommodations that compromise patient care, or that fundamentally alter the essential functions of the program or activity, are not considered to be reasonable.

Dental Hygiene (AAS)

General Education Requirements

Communication Skills (6 credits required)

ENGL& 101	ENGLISH COMPOSITION I	5 cr.
ENGL& 102	ENGLISH COMPOSITION II	5 cr.
PE Activity (1 cred	it required)	
Health course wai	ved	
Computational Sk	ills (3 credits required)	
Placement of MAT	H 090 or higher will satisfy this requirement.	
Humanities (3 cred	dits required)	
Human Relations	(3 credits required)	
Social Sciences (3	credits required)	
PSYC& 100	GENERAL PSYCHOLOGY	5 cr.
Natural Sciences (3 credits required)	
NUTR 103	GENERAL NUTRITION	3 cr.
Preliminary P	rogram Requirements	
BIOL& 251	HUMAN A & P I	4 cr.
and BIOL& 252	HUMAN A & P II	4 cr.
and BIOL& 253	HUMAN A & P III	4 cr.
BIOL& 260	MICROBIOLOGY	5 cr.
CHEM& 121	INTRO TO CHEMISTRY: PRE-HEALTH	5 cr.
CHEM& 131	INTRO TO ORGANIC/BIOCHEM	5 cr.
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Final Program Admission

Upon completion of the preliminary entrance requirements, all qualified applicants will be invited to and must participate in a mandatory student orientation with the Dental Hygiene Department. During orientation, the ASSET test will be administered. Successful candidates will be notified in writing of final acceptance into the program. Pay-

ment of a non-refundable deposit will reserve a position for fall quarter entry. During the school year, the deposit will be refunded to all currently enrolled dental hygiene students.

Because of the rigor and intensity of the curriculum, applicants must complete all pre-dental hygiene requirements prior to entry.

Completion of the pre-dental hygiene requirements does not guarantee entrance into the program. The Dental Hygiene Department has limited enrollment and Clark College reserves the right to determine admission status.

Persons not selected for entry are welcome to reapply the following year but are encouraged to seek advising before doing so and must formally reapply and comply with the admissions process for that year.

Major Area Requirements

		3 cr.
DH 102	HEAD AND NECK ANATOMY	3 cr.
DH 103	ORAL HEALTH EDUCATION	2 cr.
DH 104	INTRODUCTION TO DENTAL MATERIALS/ASSISTING	3 cr.
DH 111	CLINICAL DENTAL HYGIENE TECHNIQUES I	6 cr.
DH 112	CLINICAL DENTAL HYGIENE TECHNIQUES II	5 cr.
DH 113	CLINICAL DENTAL HYGIENE TECHNIQUES III	5 cr.
DH 114	CLINICAL DENTAL HYGIENE TECHNIQUES IV	4 cr.
DH 122	ORAL RADIOLOGY I	3 cr.
DH 123	ORAL RADIOLOGY II	1 cr.
DH 124	ORAL RADIOLOGY III	2 cr.
DH 134	RESTORATIVE DENTISTRY I	2 cr.
DH 141	ORAL MEDICINE	2 cr.
DH 143	GENERAL AND ORAL PATHOLOGY	3 cr.
DH 152	ETHICS AND THE PROFESSION	1 cr.
DH 154	CLINICAL DENTAL HYGIENE TECHNIQUES IV SEM	1 cr.
DH 163	LOCAL ANESTHESIA & PAIN CONTROL IN DENTISTRY	3 cr.
DH 171	PERIODONTICS I	3 cr.
DH 172	CARIOLOGY	2 cr.
DH 174	NITROUS OXIDE SEDATION	1 cr.
DH 181	PHARMACOLOGY I	1 cr.
DH 182	PHARMACOLOGY II	1 cr.
DH 183	PHARMACOLOGY III	1 cr.
DH 201	DENTAL PUBLIC HEALTH I	2 cr.
DH 202	DENTAL PUBLIC HEALTH II	2 cr.
DH 203	DENTAL PUBLIC HEALTH III	1 cr.
DH 211	CLINICAL DENTAL HYGIENE TECHNIQUES V	9 cr.
DH 212	CLINICAL DENTAL HYGIENE TECHNIQUES VI	9 cr.
DH 213	CLINICAL DENTAL HYGIENE TECHNIQUES VII	10 cr.
DH 231	RESTORATIVE DENTISTRY II	5 cr.

DH 232	RESTORATIVE DENTISTRY III	4 cr.
DH 233	RESTORATIVE DENTISTRY IV	3 cr.
DH 251	CLINICAL DENTAL HYGIENE TECHNIQUES V SEMINAR	1 cr.
DH 252	CLINICAL DENTAL HYGIENE TECHNIQUES VI SEM	1 cr.
DH 253	CLINICAL DENTAL HYGIENE TECHNIQUES VII SEM	1 cr.
DH 263	ETHICS AND PRACTICE MANAGEMENT	1 cr.
DH 271	PERIODONTICS II	2 cr.
DH 272	PERIODONTICS III	2 cr.

Refer to the Degree & Certificate Requirements Section in the Clark College Catalog to identify the courses needed to satisfy the General Education Requirements for the Associate of Arts degree in Dental Hygiene.

Note: Curriculum subject to change.

Total Required Credits: 132-135

Dental Hygiene (Transfer)

A student graduating from the dental hygiene program may earn either an Associate in Applied Science degree in Dental Hygiene or an Associate in Arts degree in Dental Hygiene. Both of these degrees will transfer directly to the Eastern Washington University (EWU) Bachelor Degree in Dental Hygiene program offered on the Clark College campus. Although the coursework for the B.S. program is completed on the Clark campus, EWU provides all course offerings and grants the degree. Call the program director at 360-992-2528 for more information.

The Associate in Arts degree in Dental Hygiene will transfer directly to four-year universities within the state of Washington. Contact an advisor for more information.

A career as a hygienist offers a wide range of opportunities. Services provided by dental hygienists include patient assessment procedures, exposing and developing radiographs, removing calculus and biofilm from all surfaces of the teeth, managing and treating periodontally involved conditions, placing and applying dental restorative materials, applying preventive materials to the teeth, teaching patients appropriate oral hygiene to maintain oral health, nutrition counseling, taking impressions, performing documentation and office management activities, and developing and implementing community oral health programs.

The Dental Hygiene program is accredited by the Commission on Dental Accreditation of the American Dental Association, a specialized accrediting body recognized by the Council on Postsecondary Accreditation and the United States Department of Education. Graduates receive an Associate in Applied Science degree and may complete requirements for the Associate in Arts degree, which will transfer directly to four-year universities within the state of Washington. Those completing the program qualify to take national, regional, and state board examinations for licensure and are prepared to enter clinical practice. The program includes all responsibilities allowed by Washington state law.

Clinical experience takes place in Clark College's dental hygiene clinic under the supervision of licensed dentists and dental hygienists. Other clinical or community sites are used for limited educational experiences

Application Process

The Dental Hygiene program is a seven-quarter clinical program with preliminary requirements that must be taken before program entry. Admission to the program is outlined in two stages: preliminary requirements and final program admission.

Preliminary Requirements

To meet preliminary entrance requirements, candidates must:

- Complete the Clark College Application for Admission and Statement of Intent forms. Return to the Clark College Welcome Center with the non-refundable program application fees (amount subject to change). For the current fee amounts, please visit the Dental Hygiene website at www.clark.edu/ dentalhygiene.
- Application deadline for Clark College's Dental Hygiene program is January 8th of every year for the
 upcoming fall quarter. Students MUST have no more than 10 credits left of preliminary coursework
 to complete by the end of winter quarter to qualify for selection into the following fall class.
- Complete ENGL& 101 with a 2.0 or higher grade.
- Earn a cumulative GPA of 2.75 or higher and an applicable science GPA of 2.25 or higher.
- All science courses must be seven (7) years current upon program entry.
- Send all official college transcripts to the Credential Evaluations Office for complete transcript evaluation, and continue to send updated transcripts quarterly as courses are completed.
- Complete courses listed under Preliminary Required Courses with a 2.0 or above. (Students can have a maximum of 10 credits of preliminary required coursework to complete after winter quarter to be eligible for selection into the following fall's Dental Hygiene class.)
- The most recent educational experience will be used to meet admission criteria.

Disability Statement for Health Occupations

In accordance with the Americans with Disabilities Act and the Rehabilitation Act of 1973, accommodations for students with disabilities will be considered at the student's request. The student may need to provide documentation of disability to the Disability Support Services Office to support his/her accommodation requests. Documentation guidelines and procedures can be found at www.clark.edu/dss. Once the student is qualified by DSS as having a disability, requested accommodations will be considered. Accommodations for the classroom, laboratory, or clinical setting will be evaluated according to reasonableness. Accommodations that compromise patient care, or that fundamentally alter the essential functions of the program or activity, are not considered to be reasonable.

General - Dental Hygiene (suggested) (AA)

General Education Requirements

Communication Skills (10 credits required)

ENGL& 101	ENGLISH COMPOSITION I	5 cr.
ENGL& 102	ENGLISH COMPOSITION II	5 cr.
Quantitative Ski	lls (5 credits required)	
Physical Educati	on Activity (1 credit required) Health course waived	
Oral Communica	ations (5 credits required)	
Humanities (15	credits required)	
Social Sciences (15 credits required)	
Note: From at le	ast three different departments; no more than 10 credits i	in one department.
PSYC& 100	GENERAL PSYCHOLOGY	5 cr.

Natural Sciences (15 credits required) BIOL& 251 **HUMAN A & P I** 4 cr. and BIOL& 252 HUMAN A & P II 4 cr. and BIOL& 253 **HUMAN A & P III** 4 cr. **NUTR 103 GENERAL NUTRITION** 3 cr. **Preliminary Program Requirements** BIOL& 260 MICROBIOLOGY 5 cr. CHEM& 121 INTRO TO CHEMISTRY: PRE-HEALTH 5 cr. CHEM& 131 INTRO TO ORGANIC/BIOCHEM 5 cr. **Major Area Requirements** DH 101 DENTAL ANATOMY 3 cr. DH 102 HEAD AND NECK ANATOMY 3 cr. DH 103 ORAL HEALTH EDUCATION 2 cr. INTRODUCTION TO DENTAL MATERIALS/ASSISTING DH 104 3 cr. DH 111 CLINICAL DENTAL HYGIENE TECHNIQUES I 6 cr. DH 112 CLINICAL DENTAL HYGIENE TECHNIQUES II 5 cr. DH 113 CLINICAL DENTAL HYGIENE TECHNIQUES III 5 cr. DH 114 CLINICAL DENTAL HYGIENE TECHNIQUES IV 4 cr. DH 122 ORAL RADIOLOGY I 3 cr. DH 123 ORAL RADIOLOGY II 1 cr. DH 134 RESTORATIVE DENTISTRY I 2 cr. DH 141 ORAL MEDICINE 2 cr. DH 143 GENERAL AND ORAL PATHOLOGY 3 cr. DH 152 ETHICS AND THE PROFESSION 1 cr. DH 154 CLINICAL DENTAL HYGIENE TECHNIQUES IV SEM 1 cr. DH 163 LOCAL ANESTHESIA & PAIN CONTROL IN DENTISTRY 3 cr. DH 172 CARIOLOGY 2 cr. DH 171 PERIODONTICS I 3 cr. DH 174 NITROUS OXIDE SEDATION 1 cr. DH 201 DENTAL PUBLIC HEALTH I 2 cr. DH 202 **DENTAL PUBLIC HEALTH II** 2 cr. DH 203 **DENTAL PUBLIC HEALTH III** 1 cr. DH 211 CLINICAL DENTAL HYGIENE TECHNIQUES V 9 cr. DH 212 CLINICAL DENTAL HYGIENE TECHNIQUES VI 9 cr. 10 cr. DH 213 CLINICAL DENTAL HYGIENE TECHNIQUES VII DH 231 RESTORATIVE DENTISTRY II 5 cr. DH 232 RESTORATIVE DENTISTRY III 4 cr. DH 233 RESTORATIVE DENTISTRY IV 3 cr.

DH 251	CLINICAL DENTAL HYGIENE TECHNIQUES V SEMINAR	1 cr.
DH 252	CLINICAL DENTAL HYGIENE TECHNIQUES VI SEM	1 cr.
DH 253	CLINICAL DENTAL HYGIENE TECHNIQUES VII SEM	1 cr.
DH 263	ETHICS AND PRACTICE MANAGEMENT	1 cr.
DH 271	PERIODONTICS II	2 cr.
DH 272	PERIODONTICS III	2 cr.

Diesel Technology

The diesel technician must be able to work on a great variety of equipment and their component parts. These include brake systems, drive trains, electrical and electronic circuits, hydraulic systems, and diesel engines. Diesel power is used in the transportation industry in light, medium, and heavy-duty trucks

and in industrial applications such as heavy equipment, agriculture, marine propulsion, power generation, and locomotives.

Because of the widespread use of this type of power, diesel technicians can work in a shop or outdoors as a field service technician. This program is designed to prepare students for entry-level positions into the diesel technician trade. Diesel program instruction includes both classroom theory and extensive hands-on experience in the shop where the student encounters real day-to-day problems.

The diesel evening program includes courses for Caterpillar, Cummins, and Detroit engines; electronic controls; and industrial hydraulics for technicians who wish to further their knowledge and skills. Any course in the program can be made available to area employers and their employees.

Students must complete all Major Area Requirements and specifically listed courses with a minimum grade of "C" or better in order to successfully complete the program and earn the award.

Refer to the Degree & Certificate Requirements Section of the Clark College Catalog to identify the courses needed to satisfy the General Education Requirements.

Diesel Technology (CP)

General Education Requirements

Communication Skills (3 credits required)

ENGL 097	WRITING FUNDAMENTALS	3 cr.
Computational SI	kills (3 credits required)	
MATH 085	INDUSTRIAL MATHEMATICS	5 cr.
or MATH 030	PRE-ALGEBRA	5 cr.
Human Relations	(3 credits required)	
CMST& 230	SMALL GROUP COMMUNICATION	5 cr.
or CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.
Major Area R	equirements	
DIES 111	DIESEL FUNDAMENTALS	5 cr.
DIES 112	DIESEL PROCEDURES	10 cr.

DIES 113	DIESEL ENGINES/FUEL SYSTEMS	5 cr.
DIES 114	DIESEL PROCEDURES	10 cr.
DIES 115	DRIVE TRAINS	5 cr.
DIES 116	DIESEL PROCEDURES	10 cr.
DIES 120	BASIC ELECTRICAL	3 cr.
DIES 121	ELECTRONIC ENGINE MANAGEMENT SYSTEMS	3 cr.
DIES 122	ELECTRONIC VEHICAL CONTROL SYSTEMS	3 cr.
DIES 221	ELECTRICAL/ELECTRONIC SYSTEMS	5 cr.
DIES 222	DIESEL PROCEDURES	6 cr.
DIES 223	HYDRAULIC SYSTEMS	5 cr.
DIES 224	DIESEL PROCEDURES	10 cr.
DIES 225	BRAKES, STEERING, AND SUSPENSION	5 cr.
DIES 226	DIESEL PROCEDURES	10 cr.
Suggested Ex	tra Courses for Preparation into the Trade	
BUS 110	CUSTOMER SERVICE	3 cr.
DIES 093	DETROIT DIESEL ELECTRONIC CONTROLS	3 cr.
DIES 096	CUMMINS ENGINES	3 cr.
DIES 099	CAT ENGINES	3 cr.
DIES 135	INDUSTRIAL HYDRAULICS	3 cr.
IFA 031	INDUSTRIAL FIRST AID	1 cr.
	Total Requi	red Credits: 108

Diesel Technology (AAS)

General Education Requirements

Health & Physica	l Education (3 credits	required)
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Computational Skills (3 credits required)

MATH 085	INDUSTRIAL MATHEMATICS	5 cr.
or MATH 030	PRE-ALGEBRA	5 cr.

Human Relations (3 credits required)

CMST& 230	SMALL GROUP COMMUNICATION	5 cr.
or CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.

Humanities (3 credits required)

Social Sciences (3 credits required)

Natural Sciences (3 credits required)

Note: ENGL 097 does not meet the Communication Skills General Education Requirement for the AAS degree.

Major Area Requirements

DIESEL FUNDAMENTALS	5 cr.
DIESEL PROCEDURES	10 cr.
DIESEL ENGINES/FUEL SYSTEMS	5 cr.
DIESEL PROCEDURES	10 cr.
DRIVE TRAINS	5 cr.
DIESEL PROCEDURES	10 cr.
BASIC ELECTRICAL	3 cr.
ELECTRONIC ENGINE MANAGEMENT SYSTEMS	3 cr.
ELECTRONIC VEHICAL CONTROL SYSTEMS	3 cr.
ELECTRICAL/ELECTRONIC SYSTEMS	5 cr.
DIESEL PROCEDURES	6 cr.
HYDRAULIC SYSTEMS	5 cr.
DIESEL PROCEDURES	10 cr.
BRAKES, STEERING, AND SUSPENSION	5 cr.
DIESEL PROCEDURES	10 cr.
	DIESEL PROCEDURES DIESEL ENGINES/FUEL SYSTEMS DIESEL PROCEDURES DRIVE TRAINS DIESEL PROCEDURES BASIC ELECTRICAL ELECTRONIC ENGINE MANAGEMENT SYSTEMS ELECTRONIC VEHICAL CONTROL SYSTEMS ELECTRICAL/ELECTRONIC SYSTEMS DIESEL PROCEDURES HYDRAULIC SYSTEMS DIESEL PROCEDURES BRAKES, STEERING, AND SUSPENSION

Total Required Credits: 120-122

Diesel Technology (AAT)

General Education Requirements

Communication Skills (5 credits required)

Computational Skills (5 credits required)

Human Relations (5 credits required)

Major Area Requirements

DIES 111	DIESEL FUNDAMENTALS	5 cr.
DIES 112	DIESEL PROCEDURES	10 cr.
DIES 113	DIESEL ENGINES/FUEL SYSTEMS	5 cr.
DIES 114	DIESEL PROCEDURES	10 cr.
DIES 115	DRIVE TRAINS	5 cr.
DIES 116	DIESEL PROCEDURES	10 cr.
DIES 120	BASIC ELECTRICAL	3 cr.
DIES 121	ELECTRONIC ENGINE MANAGEMENT SYSTEMS	3 cr.
DIES 122	ELECTRONIC VEHICAL CONTROL SYSTEMS	3 cr.
DIES 221	ELECTRICAL/ELECTRONIC SYSTEMS	5 cr.
DIES 222	DIESEL PROCEDURES	6 cr.
DIES 223	HYDRAULIC SYSTEMS	5 cr.
DIES 224	DIESEL PROCEDURES	10 cr.

DIES 225	BRAKES, STEERING, AND SUSPENSION	5 cr.
DIES 226	DIESEL PROCEDURES	10 cr.
Additional	Recommended Courses (for preparation into tr	rade)
BUS 110	CUSTOMER SERVICE	3 cr.
DIES 093	DETROIT DIESEL ELECTRONIC CONTROLS	3 cr.
DIES 096	CUMMINS ENGINES	3 cr.
DIES 099	CAT ENGINES	3 cr.
DIES 135	INDUSTRIAL HYDRAULICS	3 cr.
IFA 031	INDUSTRIAL FIRST AID	1 cr.
		Doguired Credites 110

Total Required Credits: 110

Drama (Transfer)

The Clark College Drama program provides a rich cultural focus for the campus and surrounding community, blending theatre, music, dance, and art into entertaining and award-winning productions. The co-curricular program combines traditional classroom training with the opportunity for students to apply and test both performance and technical skills in staged productions before a paying audience.

A comprehensive curriculum teaches acting principles and techniques for both theatre and television, including scene study, characterization, and period styles of acting. Camera operations and directing skills are also studied.

The Children's Theatre classes focus on performance styles for young audiences, touring scenery techniques, and performance tour management.

Basic stagecraft design and construction, stage lighting and makeup courses provide behind-the-scenes knowledge to enhance acting performance and also skills for a career in the production side of the film and theatre industry. Students planning a career in acting or other phases of theatrical production can acquire foundation skills and experience in multiple settings while completing degree requirements. Theatre courses and performances also serve as excellent training for those planning careers in teaching or other fields that require public presentations.

Because course requirements vary at each institution, students interested in pursuing a four-year degree in Drama should work with advisors at Clark and their transfer institution to develop a course of study.

Drama courses typically transfer to four-year institutions. However, students should contact their transfer institution to clarify each course's transferability.

Early Childhood Education

Work in programs for young children is a challenging, absorbing, and personally rewarding career. In Clark College's Early Childhood Education program, students study child development and program organization, plan learning experiences for young children, and develop guidance skills in working with children.

The Early Childhood Education (ECE) department offers various certificates of achievement. As part of each certificate program, students are required to complete prescribed numbers of hours doing student teaching and/or observation in the Child and Family Studies program under the supervision of selected staff as well as in the community at large.

Programs are revised periodically to reflect changes in the specific career field. The following list of courses is an example of the coursework required for each program. Students planning to complete this program must meet with an adviser prior to registration for a current list of requirements.

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Students must complete all Major Area Requirements and specifically listed courses with a minimum grade of "C" or better in order to successfully complete the program and earn the award.

Refer to the Degree & Certificate Requirements Section of the Clark College Catalog to identify the courses needed to satisfy the General Education Requirements.

Students must be able to pass a Criminal History screening to participate with the children in the ECE lab school. Participation in the ECE lab is a requirement for taking classes in ECE program. Students are also required to get a TB test or provide written proof that they have had one within the last year.

ECE-Foundations of Curriculum (CA)

Major Area Requirements

ECE 114	ENVIRONMENTS FOR CHILDREN	3 cr.
ECE 121	INTRODUCTION TO EARLY CHILDHOOD EDUCATION *	4 cr.
or ECE 131	ISSUES & TRENDS IN EARLY CHILDHOOD EDUCATION	3 cr.
ECE 124	GUIDING BEHAVIOR OF YOUNG CHILDREN	3 cr.
ECE 133	REFLECTIVE PRACTICES IN EARLY LEARNING	3 cr.
ECE 135	PARTNERSHIPS WITH FAMILIES IN EARLY CARE & EDUC	3 cr.
ECE 137	CHILD DEVELOPMENT: PRENATAL THROUGH AGE EIGHT	5 cr.
ECE 209	LEARNING EXPERIENCES FOR YOUNG CHILDREN I	3 cr.
ECE 210	LEARNING EXPERIENCES FOR YOUNG CHILDREN I LAB	3 cr.
ECE 211	LEARNING EXPERIENCES FOR YOUNG CHILDREN II	3 cr.
ECE 212	LEARNING EXP FOR YOUNG CHILDREN II LAB	3 cr.
ECE 213	LEARNING EXPERIENCES FOR YOUNG CHILDREN III	3 cr.
ECE 214	LEARNING EXP FOR YOUNG CHILDREN III LAB	3 cr.
EDUC& 203	EXCEPTIONAL CHILD	3 cr.

Total Required Credits: 41-42

ECE-Family Child Care (CA)

Core Requirements

ECE 103	CHILD NUTRITION, HEALTH AND SAFETY	3 cr.
ECE 114	ENVIRONMENTS FOR CHILDREN	3 cr.
ECE 116	LITERATURE AND STORYTELLING FOR CHILDREN	3 cr.
ECE 124	GUIDING BEHAVIOR OF YOUNG CHILDREN	3 cr.
ECE 137	CHILD DEVELOPMENT: PRENATAL THROUGH AGE EIGHT	5 cr.

Additional Requirements

Students must select two courses from area one (as paired) AND one course from area two:

1.		
ECE 136	PROGRAMS FOR INFANTS AND TODDLERS	4 cr.

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^{*}The requirement for this class may be satisfied by taking ECE 131: Issues and Trends in ECE (Distance Education via WAOL) for 3 credits

EARLY LANGUAGE FACILITATION	2 cr.
CURRICULUM AND GUIDANCE FOR SCHOOL-AGERS	4 cr.
CHILD DEVELOPMENT:SCHOOL AGE THROUGH ADOLESCENCE	5 cr.
PARTNERSHIPS WITH FAMILIES IN EARLY CARE & EDUC	3 cr.
CHILD AND FAMILY	3 cr.
	CURRICULUM AND GUIDANCE FOR SCHOOL-AGERS CHILD DEVELOPMENT:SCHOOL AGE THROUGH ADOLESCENCE PARTNERSHIPS WITH FAMILIES IN EARLY CARE & EDUC

Total Required Credits: 26-29

ECE-Infant Toddler (CA)

All classes are in the evening or online.

Major Area Requirements

ECE 114	ENVIRONMENTS FOR CHILDREN	3 cr.
ECE 133	REFLECTIVE PRACTICES IN EARLY LEARNING	3 cr.
ECE 135	PARTNERSHIPS WITH FAMILIES IN EARLY CARE & EDUC	3 cr.
ECE 136	PROGRAMS FOR INFANTS AND TODDLERS	4 cr.
ECE 137	CHILD DEVELOPMENT: PRENATAL THROUGH AGE EIGHT	5 cr.
ECE 208	EARLY LANGUAGE FACILITATION	2 cr.
EDUC& 203	EXCEPTIONAL CHILD	3 cr.

Total Required Credits: 23

ECE-School-Age (CA)

Major Area Requirements

For the School-age Certificate, students select either ECE 135 or ECE 202.

ECE 112	CURRICULUM AND GUIDANCE FOR SCHOOL-AGERS	4 cr.
ECE 124	GUIDING BEHAVIOR OF YOUNG CHILDREN	3 cr.
ECE 132	OBSERVATION, DOCUMENTATION AND RECORDING	3 cr.
ECE 133	REFLECTIVE PRACTICES IN EARLY LEARNING	3 cr.
ECE 135	PARTNERSHIPS WITH FAMILIES IN EARLY CARE & EDUC *	3 cr.
or ECE 202	CHILD AND FAMILY *	3 cr.
ECE 138	CHILD DEVELOPMENT:SCHOOL AGE THROUGH ADOLESCENCE	5 cr.
EDUC& 203	EXCEPTIONAL CHILD	3 cr.

Total Required Credits: 24

Early Childhood Education (CP)

General Education Requirements

Communication Skills (3 credits required)

Computational Skills (3 credits required)

Human Relations (3 credits required)

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Major Area Requirements

ECE 103	CHILD NUTRITION, HEALTH AND SAFETY	3 cr.
ECE 114	ENVIRONMENTS FOR CHILDREN	3 cr.
ECE 121	INTRODUCTION TO EARLY CHILDHOOD EDUCATION *	4 cr.
ECE 123	EARLY CHILDHOOD PROGRAM REG & BEST PRACT (non-graded)	2 cr.
ECE 124	GUIDING BEHAVIOR OF YOUNG CHILDREN	3 cr.
ECE 132	OBSERVATION, DOCUMENTATION AND RECORDING	3 cr.
ECE 133	REFLECTIVE PRACTICES IN EARLY LEARNING	3 cr.
ECE 135	PARTNERSHIPS WITH FAMILIES IN EARLY CARE & EDUC	3 cr.
ECE 138	CHILD DEVELOPMENT:SCHOOL AGE THROUGH ADOLESCENCE	5 cr.
ECE 208	EARLY LANGUAGE FACILITATION	2 cr.
ECE 209	LEARNING EXPERIENCES FOR YOUNG CHILDREN I	3 cr.
ECE 210	LEARNING EXPERIENCES FOR YOUNG CHILDREN I LAB	3 cr.
EDUC& 203	EXCEPTIONAL CHILD	3 cr.

Additional Major Area Requirements

Select a **minimum of 5-6 credits** from the following list (to make a total of 45 or more major area requirements):

'		
ECE 102	SCIENCE AND MATHEMATICS FOR YOUNG CHILDREN	3 cr.
ECE 112	CURRICULUM AND GUIDANCE FOR SCHOOL-AGERS	4 cr.
ECE 116	LITERATURE AND STORYTELLING FOR CHILDREN	3 cr.
ECE 136	PROGRAMS FOR INFANTS AND TODDLERS	4 cr.
ECE 138	CHILD DEVELOPMENT:SCHOOL AGE THROUGH ADOLESCENCE	5 cr.
ECE 202	CHILD AND FAMILY	3 cr.
ECE 211	LEARNING EXPERIENCES FOR YOUNG CHILDREN II	3 cr.
and ECE 212	LEARNING EXP FOR YOUNG CHILDREN II LAB	3 cr.
MUSC 106	MUSIC IN EARLY CHILDHOOD EDUCATION	3 cr.
PSYC& 200	LIFESPAN PSYCHOLOGY **	5 cr.
	· · · · · · · · · · · · · · · · · · ·	a.a.a.a.a.a.a.a.a.a.a.a.a.

Total Required Credits: 48-54

Early Childhood Education (AAS)

General Education Requirements

Communication Skills (6 credits required)

ENGL& 101 ENGLISH COMPOSITION I 5 cr.

Health & Physical Education (3 credits required)

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^{*}The requirement for this class may be satisfied by taking ECE 131: Issues and Trends in ECE (Distance Education via WAOL) for 3 credits

^{**}Psychology 200 will fulfill the Human Relations requirement

⁴⁵ credits in ECE fulfills the State requirement for Program Director for Licensed Child Care Centers

Computational Skill	s (3 credits required)	
MATH 030	PRE-ALGEBRA (or COMPASS Placement in MATH 090)	5 cr.
Human Relations (3	credits required)	
Humanities (3 credi	ts required)	
Social Sciences (3 cr	edits required)	
Natural Sciences (3	credits required)	
ENVS 109	INTEGRATED ENVIRONMENTAL SCIENCE (recommended)	5 cr.
Major Area Red	quirements	
ECE 102	SCIENCE AND MATHEMATICS FOR YOUNG CHILDREN	3 cr.
ECE 103	CHILD NUTRITION, HEALTH AND SAFETY	3 cr.
ECE 105	INDIVIDUALIZED INSTRUCTION I	2 cr.
ECE 106	INDIVIDUALIZED INSTRUCTION II	2 cr.
ECE 114	ENVIRONMENTS FOR CHILDREN	3 cr.
ECE 116	LITERATURE AND STORYTELLING FOR CHILDREN	3 cr.
ECE 121	INTRODUCTION TO EARLY CHILDHOOD EDUCATION *	4 cr.
ECE 123	EARLY CHILDHOOD PROGRAM REG & BEST PRACT	2 cr.
ECE 124	GUIDING BEHAVIOR OF YOUNG CHILDREN	3 cr.
ECE 132	OBSERVATION, DOCUMENTATION AND RECORDING	3 cr.
ECE 133	REFLECTIVE PRACTICES IN EARLY LEARNING	3 cr.
ECE 135	PARTNERSHIPS WITH FAMILIES IN EARLY CARE & EDUC	3 cr.
ECE 137	CHILD DEVELOPMENT: PRENATAL THROUGH AGE EIGHT	5 cr.
ECE 199	COOPERATIVE WORK EXPERIENCE **	1-5 cr.
ECE 202	CHILD AND FAMILY	3 cr.
ECE 208	EARLY LANGUAGE FACILITATION	2 cr.
ECE 209	LEARNING EXPERIENCES FOR YOUNG CHILDREN I	3 cr.
ECE 210	LEARNING EXPERIENCES FOR YOUNG CHILDREN I LAB	3 cr.
ECE 211	LEARNING EXPERIENCES FOR YOUNG CHILDREN II	3 cr.
ECE 212	LEARNING EXP FOR YOUNG CHILDREN II LAB	3 cr.
ECE 213	LEARNING EXPERIENCES FOR YOUNG CHILDREN III	3 cr.
ECE 214	LEARNING EXP FOR YOUNG CHILDREN III LAB	3 cr.
ECE 215	EARLY CHILDHOOD SEMINAR	2 cr.
EDUC& 203	EXCEPTIONAL CHILD	3 cr.
Additional Maj	or Area Requirements	
ECE 136	PROGRAMS FOR INFANTS AND TODDLERS	4 cr.
or ECE 138	CHILD DEVELOPMENT:SCHOOL AGE THROUGH ADOLESCENCE	5 cr.
and ECE 112	CURRICULUM AND GUIDANCE FOR SCHOOL-AGERS	4 cr.
	Total Required Credent required for ECE 199/ECE 215. Ent required for ECE 209/ECE 210 Lab.	lits: 96-105

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Concurrent enrollment required for ECE 211/ECE 212 Lab.

Concurrent enrollment required for ECE 213/ECE 214 Lab.

- * The requirement for this class may be satisfied by taking ECE 131.
- ** ECE 199 must be taken for 5 credits.

The course of study in Early Childhood Education conforms to the following:

- Guidelines for preparation of early childhood professionals;
- · Washington state skill standards; and
- Early childhood education professional competencies.

ECE I-BEST- Initial Child Care (CERT)

I-BEST pairs English as a Second Language (ESL) and/or Adult Basic Education (ABE) instructors with career and technical education instructors in the classroom to concurrently provide students with literacy education and workforce skills. I-BEST challenges the traditional notion that students must first complete all levels of basic education before they can begin workforce training.

Major Area Requirements

ECE 103	CHILD NUTRITION, HEALTH AND SAFETY	3 cr.
ECE 111	EARLY CHILDHOOD EDUCATION WORKSHOPS	1-3 cr.
ECE 114	ENVIRONMENTS FOR CHILDREN	3 cr.
ECE 121	INTRODUCTION TO EARLY CHILDHOOD EDUCATION	4 cr.
ECE 124	GUIDING BEHAVIOR OF YOUNG CHILDREN	3 cr.
ECE 199	COOPERATIVE WORK EXPERIENCE	1-5 cr.
ECE 208	EARLY LANGUAGE FACILITATION	2 cr.

Total Required Credits: 18

Early Childhood Education (Transfer)

Students preparing to transfer should make an early decision and contact the four-year school to which they will transfer. The Early Childhood Education coordinator can help in planning a schedule based on the four-year school's requirements. The department has made transfer agreements with several colleges to date.

Students must be able to pass a Criminal History screening to participate with the children in the ECE lab school. Participation in the ECE lab is a requirement for taking classes in ECE program. Students are also required to get a TB test or provide written proof that they have had one within the last year.

Early Childhood Education - Transfer Degree (AAS-T) (AAS)

General Education Requirements

Note: Some general education requirements may be met by the specific requirements of the program.

	Skills (10 credits required)	
ENGL& 101	ENGLISH COMPOSITION I	5 cr.
ENGL& 102	ENGLISH COMPOSITION II	5 cr.
Quantitative Skil	lls (10 credits required)	
MATH 105	FINITE MATHEMATICS	5 cr.
MATH& 107	MATH IN SOCIETY	5 cr.

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Humanities (10 credi	ts required) (must be taken from two departments)	
CMST& 220	PUBLIC SPEAKING	5 cr.
Recommended		
CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.
CMST 216	INTERCULTURAL COMMUNICATION	5 cr.
CMST& 230	SMALL GROUP COMMUNICATION	5 cr.
MUSC 106	MUSIC IN EARLY CHILDHOOD EDUCATION	3 cr.
MUSC& 104	MUSIC APPRECIATION	3 cr.
SPAN& 121	SPANISH I	5 cr.
WS 101	INTRODUCTION TO WOMEN'S STUDIES	5 cr.
Social Sciences (10 cr	redits required) (must be taken from two departments)	
PSYC& 200	LIFESPAN PSYCHOLOGY	5 cr.
Recommended		
SOC& 101	INTRO TO SOCIOLOGY	5 cr.
SOC 121	MARRIAGE AND FAMILY EXPERIENCES IN THE U.S.	3 cr.
SOC 131	RACE AND ETHNICITY IN THE U.S.	3 cr.
Natural Sciences (10	credits required) (5 credits must be a lab science)	
Recommended		
BIOL 164	HUMAN BIOLOGY	4 cr.
and BIOL 165	HUMAN BIOLOGY LAB	1 cr.
PHSC 101	GENERAL PHYSICAL SCIENCE	5 cr.
PHSC 102	GENERAL PHYSICAL SCIENCE	5 cr.
Major Area Req	uirements	
-	llowing areas are required:	
Family and Commun		
ECE 202	CHILD AND FAMILY	3 cr.
Health, Safety and No	utrition	
ECE 103	CHILD NUTRITION, HEALTH AND SAFETY	3 cr.
Professionalism		
ECE 215	EARLY CHILDHOOD SEMINAR	2 cr.
ECE 123	EARLY CHILDHOOD PROGRAM REG & BEST PRACT	2 cr.
_		
Choose 5-6 cred	lits from each content area below for a total of 30 credi	ts:
Child Development a	and Learning (including Typical and Atypical)	
ECE 100	CHILD DEVELOPMENT: BIRTH TO SIX	3 cr.
ECE 210	LEARNING EXPERIENCES FOR YOUNG CHILDREN I LAB	3 cr.
EDUC& 203	EXCEPTIONAL CHILD	3 cr.
Curriculum Developr	ment and Implementation	
ECE 112	CURRICULUM AND GUIDANCE FOR SCHOOL-AGERS	4 cr.

ECE 209	LEARNING EXPERIENCES FOR YOUNG CHILDREN I	3 cr.
ECE 211	LEARNING EXPERIENCES FOR YOUNG CHILDREN II	3 cr.
ECE 213	LEARNING EXPERIENCES FOR YOUNG CHILDREN III	3 cr.
Child Guidance		
ECE 124	GUIDING BEHAVIOR OF YOUNG CHILDREN	3 cr.
Diversity, Inclusion, N	Multicultural	
ECE 105	INDIVIDUALIZED INSTRUCTION I	2 cr.
ECE 106	INDIVIDUALIZED INSTRUCTION II	2 cr.
ECE 121	INTRODUCTION TO EARLY CHILDHOOD EDUCATION	4 cr.
ECE 202	CHILD AND FAMILY	3 cr.
ECE 208	EARLY LANGUAGE FACILITATION	2 cr.
EDUC& 203	EXCEPTIONAL CHILD	3 cr.
Observation, Assessr	ment and Evaluation	
ECE 106	INDIVIDUALIZED INSTRUCTION II	2 cr.
ECE 121	INTRODUCTION TO EARLY CHILDHOOD EDUCATION	4 cr.
ECE 124	GUIDING BEHAVIOR OF YOUNG CHILDREN	3 cr.
Practicum/Field Expe	rience (suggested minimum 300 hours)	
ECE 210	LEARNING EXPERIENCES FOR YOUNG CHILDREN I LAB	3 cr.
ECE 212	LEARNING EXP FOR YOUNG CHILDREN II LAB	3 cr.
ECE 214	LEARNING EXP FOR YOUNG CHILDREN III LAB	3 cr.
ECE 199	COOPERATIVE WORK EXPERIENCE	1-5 cr.

Total Required Credits: 90 minimum

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Education (Transfer)

Teachers play a direct role in the life of almost every person and in the development of society as a whole. Shortages of trained educators are anticipated in the near future as many of those currently working in the profession reach retirement age.

Elementary teachers instruct students in basic concepts in several subjects, including mathematics, language arts, science, and social studies. They also introduce small children to formal learning in kindergarten.

Secondary teachers usually specialize in teaching one subject to high school students such as English, music, history, mathematics, languages, biology, chemistry, or others. Many secondary teachers spend at least some time teaching outside of their subject area. Duties may also include attending staff meetings, supervising extracurricular activities and meeting with parents.

A minimum of a bachelor's degree plus teaching certification is required to teach in grades kindergarten through 12.

Prospective education students should consult with an education advisor to plan a course of study. At Clark College students usually complete General Education Requirements within the Associate in Arts degree. A specific course of study should be planned based on the requirements of the senior institution where the student will transfer.

Elementary Education - DTA/MRP (AA)

This pathway is applicable to students planning to prepare for an upper-division elementary education major.

As of January 2006, this document represents a new agreement between the following baccalaureate institutions offering Elementary Education bachelor's degrees and the community and technical colleges system. Baccalaureate institutions party to this agreement are: CWU, EWU, WSU, WWU, City University, Gonzaga, Heritage, PLU, SMU, SPU, Walla Walla University, and Whitworth.

Since Clark has had a long-standing degree path with WSUV in Elementary Education, students should follow the specific MRP for WSUV to ensure that they are meeting WSUV's cohort admissions requirements.

Although not required for this degree, students should be advised they must take the WEST-B in order to apply to teacher preparation programs.

Though this degree does not require such, Clark College students should know that the standard Clark AA degree path has these differences from the MRP defined below:

- Clark requires 3 credits of Health-Physical Education coursework, and
- As of Fall 2011, Clark requires a course in Oral Communication, and
- Clark's Social Science distribution requirement stipulates that students take courses from at least three different departments.

Students must also meet the residency requirements as established by Clark. While Clark College has approved offering the degree below, Clark students should keep these requirements in mind should their transfer pathways change.

Students are responsible for researching and preparing for specific major requirements of baccalaureate institutions as early as possible prior to transferring.

For more information, please visit the Major Related Programs/Articulated Degrees section of this catalog.

Generic DTA Requirements

A. Basic Requirements

1. Co	ommuni	cation Sk	ills								10	cr.
2. Q	uantitati	ve/Symb	olic Reas	oning	Requ	ireme	nt				5	cr.
				_	_							

Intermediate algebra proficiency is required.

B. Distribution Requirements

1. Humanities	15-20 cr.
i. numamues	15-20 Cr.

- 2. Social Sciences 20 cr.
- 3. Natural Sciences

D. Electives

1. Elective Courses

Credits that fulfill the requirements listed under MRP Requirements/Major Requirements to bring the total degree to 90 credits.

MRP Requirements

A. Basic Requirements

1. English Composition 10 cr.

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2. Quantitative/Symbolic Reasoning Requirement

9-15 quarter-based credits of math content at the lower-division level must include number theory, geometry, probability and statistics, with a focus on the development of mathematical concepts in elementary education curriculum. These credits will be accepted by the baccalaureate institutions as fulfilling the lower division math requirements in the Direct Transfer Agreement (DTA) and any additional math credits which may go beyond those requirements will be accepted as electives.

Intermediate algebra proficiency is required.

B. Distribution Requirements

1. Humanities 15-20 cr.

Required

3-5 credits public speaking

5 credits US History (might be a Social Science at some community colleges)

Recommended

7-12 credits from the following list: art, music, literature, or drama/theater

Consistent with the requirements in all DTA degrees - no more than 10 credits per discipline area, 5 credits maximum in world languages or ASL. No more than 5 credits of performance/skills classes are allowed.

2. Social Sciences 20 cr.

Representing at least 3 disciplines, including:

Required

5 credits World Civilization or non-Western History

Recommended

15 credits from the following list: Economics, Geography, Political Science, Psychology, or additional History.

Integrated coursework covering several of these topics is encouraged.

3. Natural Sciences 15 cr.

- 5 credits Biological Sciences
- 5 credits Geology or Earth Science
- 5 credits physical science (Chemistry or Physics)2 of the above with lab.

C. Major Requirements

The baccalaureate institutions will accept 5 quarter credits of education-specific professional introduction coursework, if the coursework meets the following Washington endorsement competencies for Elementary Teachers:

- an exploration of the historical, philosophical and social aspects of elementary education
- an evaluation from the field site supervisor observing the student's work with children
- awareness of the certification process in the state of Washington

A minimum of 30 hours of K-8 classroom experience must be included during the degree program.

3-5 credits in gender/culture coursework

Students should be able to demonstrate computer literacy in software programs including word processing, PowerPoint, and spreadsheets, in addition to being proficient on the Internet. These skills may be demonstrated through a portfolio of files gathered during their education coursework.

D. Electives

Other college-level courses, of which a maximum of 15 credits may be in college-level courses as defined by the community college, and the remainder shall be fully transferable as defined by the receiving institution. Where appropriate, preparation courses for the major, minor, or professional certification should ideally be included in this coursework.

Clark College Equivalents

Clark College Ed	quivaients	
A. Basic Requirement	ts	
1. Communication Sk	xills	
ENGL& 101	ENGLISH COMPOSITION I	5 cr.
ENGL& 102	ENGLISH COMPOSITION II	5 cr.
2. Quantitative/Symb	polic Reasoning Requirement	
MATH 120	MATHEMATICS FOR ELEMENTARY TEACHERS	5 cr.
and MATH 121	MATHEMATICS FOR ELEMENTARY TEACHERS	5 cr.
or MATH 122	MATH FOR ELEMENTARY TEACHERS	5 cr.
and MATH 123	MATH FOR ELEMENTARY TEACHERS	5 cr.
and MATH 124	MATH FOR ELEMENTARY TEACHERS	5 cr.
B. Distribution Requi	rements	
1. Humanities		
CMST& 220	PUBLIC SPEAKING Fulfills oral communication requirement	5 cr.
HIST& 146	UNITED STATES HISTORY I	5 cr.
or HIST& 147	UNITED STATES HISTORY II	5 cr.
or HIST& 148	UNITED STATES HISTORY III	5 cr.
2. Social Sciences		
HIST& 126	WORLD CIVILIZATIONS I	5 cr.
or HIST& 127	WORLD CIVILIZATIONS II	5 cr.
or HIST& 128	WORLD CIVILIZATIONS III	5 cr.
3. Natural Sciences		
15 credits in Natural S	Sciences include:	
• 5 credits Biologic	cal sciences	
• 5 credits Geology	y or Earth Science	
• 5 credits physica	l sciences(Chemistry or Physics)	
Two of the above	with lab.	
C. Major Requiremen	rts	
EDUC& 201	INTRODUCTION TO EDUCATION	3 cr.
EDUC 210	INTRODUCTORY FIELD EXPERIENCE	3 cr.
2. Social Sciences		
Students should cons	sult with the transfer institution to ensure fulfillment of this requirement.	
3. Natural Sciences		
Students should cons	sult with the transfer institution to ensure fulfillment of this requirement.	

D. Electives

Notes

B. Distribution Requirements

2. Social Sciences

WSU, CWU, & SM require developmental (lifespan) psychology.

3. Natural Sciences

Total Required Credits: 90

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Elementary Education - Transfer to WSU Vancouver (AA)

This pathway is applicable to students planning to prepare for an upper-division elementary education major. This degree is defined specifically for transfer to the WSUV cohort program in elementary education and replaces the AA-DTA for WSUV transfer in Elementary Education.

Students taking this degree should note that a change in transfer institution might change requirements, and advisors at the transfer institution should be consulted.

The coding for this degree is NOT different that of the standard Elementary Education degree.

Although not required for this degree, students should be advised they must take the WEST-B in order to apply to teacher preparation programs.

Students must also meet the residency requirements as established by Clark. While Clark College has approved offering the degree below, Clark students should keep these requirements in mind should their transfer pathways change.

General Education Requirements

Communication Skills (10 credits required)

ENGL& 101	ENGLISH COMPOSITION I	5 cr.
ENGL& 102	ENGLISH COMPOSITION II	5 cr.
Quantitative Skills (5	5 credits required)	
MATH 120	MATHEMATICS FOR ELEMENTARY TEACHERS	5 cr.
and MATH 121	MATHEMATICS FOR ELEMENTARY TEACHERS	5 cr.
or MATH 122	MATH FOR ELEMENTARY TEACHERS	5 cr.
and MATH 123	MATH FOR ELEMENTARY TEACHERS	5 cr.
and MATH 124	MATH FOR ELEMENTARY TEACHERS	5 cr.
Health & Physical Ed	ucation (3 credits required)	
Oral Communication	ns (5 credits required)	
Humanities (15 cred	its required)	
CMST& 220	PUBLIC SPEAKING Fulfills oral communication requirement	5 cr.
MUSC 106	MUSIC IN EARLY CHILDHOOD EDUCATION (List B)	3 cr.
Other Humanities*	7 cr.	
Social Sciences (26-3	30 credits required)	
ECON 101	INTRODUCTION TO ECONOMICS	3 cr.
or ECON& 201	MICRO ECONOMICS	5 cr.
or ECON& 202	MACRO ECONOMICS	5 cr.

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GEOG& 100	INTRODUCTION TO GEOGRAPHY	5 cr.
HIST& 146	UNITED STATES HISTORY I	5 cr.
or HIST& 147	UNITED STATES HISTORY II	5 cr.
or HIST& 148	UNITED STATES HISTORY III	5 cr.
POLS 111	AMERICAN NATIONAL GOVERNMENT AND POLITICS	5 cr.
or POLS 171	SURVEY OF THE UNITED STATES CONSTITUTION	3 cr.
PSYC& 100	GENERAL PSYCHOLOGY	5 cr.
PSYC& 200	LIFESPAN PSYCHOLOGY	5 cr.
-	(15 credits required) (must include a lab course)	

Major Area Requirements

EDUC& 201	INTRODUCTION TO EDUCATION	3 cr.
EDUC 210	INTRODUCTORY FIELD EXPERIENCE	3 cr.
ENGL 105	ENGLISH GRAMMAR Strongly Recommended	5 cr.
MATH 121	MATHEMATICS FOR ELEMENTARY TEACHERS	5 cr.
or MATH 123	MATH FOR ELEMENTARY TEACHERS	5 cr.
and MATH 124	MATH FOR ELEMENTARY TEACHERS	5 cr.

^{*} For this degree only, ENGL105 may fulfill a List A Humanities requirement.

Total Required Credits: 90 Minimum

Emergency Medical Services

Emergency Medical Technician

Clark College offers a Certificate of Achievement in Emergency Medical Technician-Basic (EMT-B). The EMT-B course is designed to enhance job opportunities in pre-hospital emergency settings. A variety of community agencies such as ambulance companies, police and fire departments, and large industries utilize employees with EMT-B training. This program includes lecture, laboratory, emergency room observation, and field experience on an ambulance or fire rescue unit as available.

Emergency Medical Technician-Basic

EMT 103 is a ten-credit-hour Clark College course taught at the Northwest Regional Training Center (NWRTC). Check the Clark College website for directions to the training center. Students must bring the following items to the first night of class:

- Copy of current American Heart Association healthcare provider CPR card (or take CPR 032 within first two weeks of class).
- Copy of valid driver's license.
- Washington State Patrol criminal background check (within six [6] months of course date).
- MMR immunization (twice in lifetime or within last 10 years).
- Hepatitis B immunization (series of three) or signed waiver.
- Negative tuberculosis skin test or chest x-ray (within past six [6] months).

- Must be 18 years of age.
- Proof of high school completion (transcripts) or GED.

Please call the NWRTC office at (360) 397-2100 if you have any questions about the above requirements.

Emergency Medical Technician - Basic (CA)

To earn the Certificate of Achievement, students must complete the courses listed below with a grade point average (GPA) of 2.0 or above in each offering.

Program Requirements

BMED 110	MEDICAL TERMINOLOGY I *	3 cr.
BMED 111	MEDICAL TERMINOLOGY II *	3 cr.
BMED 138	LEGAL ASPECTS OF THE MEDICAL OFFICE	2 cr.
BTEC 087	APPLIED OFFICE ENGLISH **	3 cr.
EMT 103	EMERGENCY MEDICAL TECHNICIAN - BASIC	10 cr.
FACPR032	FIRST AID AND HEALTH CARE PROVIDER CPR	1 cr.
HEOC 100	BASIC CONCEPTS OF ANATOMY AND PHYSIOLOGY *	3 cr.
and HEOC 101	BASIC CONCEPTS OF ANATOMY & PHYSIOLOGY LAB *	1 cr.
or BIOL 164	HUMAN BIOLOGY *	4 cr.
and BIOL 165	HUMAN BIOLOGY LAB *	1 cr.
HEOC 102	HEALTH CAREERS EXPLORATION	2 cr.
HEOC 120	AIDS EDUCATION	1 cr.

Total Required Credits: 29-30

Affiliation

Students who are not affiliated with an appropriate agency have 18 months after completing the program to gain affiliation and take the Washington state exam. All Emergency Medical Technician-Basics wishing to work in Washington must obtain state certification.

Engineering (Transfer)

Engineering is a profession where you are challenged to develop creative solutions to problems related to every aspect of life, through the application of mathematical and scientific principles, experience, creativity, and common sense.

Clark College offers the first two years of study of a four-year engineering degree program. The first two years main focus of study are preparatory courses in mathematics, chemistry, physics, and basic engineering courses required by the student's engineering field and transfer school.

Those who study engineering today can look forward to a rewarding career where they experience personal achievement, exercise their curiosity, give service to society, and realize financial success.

Engineers work on a wide variety of projects: basic and applied research, product development, design and modification of processes and equipment, and plant operation. Some enter sales, marketing, management, consulting, government agencies, or teaching.

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^{*}BMED 110, BMED 111 and HEOC 100 and 101, or BIOL 164 & 165, must be seven years current upon program entry.

^{**}Compass writing score of 49 or higher or successful completion of ENGL 097 or higher will satisfy this requirement.

Engineers plan, develop, and oversee the research and design of construction and manufacturing projects. They work on teams with engineers from other fields to design integrated systems and solve complex technical problems. Engineers also develop and use computer-aided design programs to simulate and test products and systems.

Engineers can specialize in many fields including:

Aeronautical/Aerospace Bioengineering
Biomedical Ceramic
Chemical/Pulp & Paper Civil

Computer Electrical/Electronics

Environmental Forestry
Manufacturing/Industrial Marine
Materials Mechanical

Software

ENICL 0 101

There are many other interdisciplinary fields including architecture, law, sports, human factors and acoustics.

Engineering (AST2)

This is a suggested program for the first two years of a four-year Engineering program. These lower-division course requirements will vary depending on the math and English placement at Clark College, and the requirements of the four-year institution to which you transfer. It is critical that you work with an Engineering faculty advisor to ensure your program will give you the maximum benefit when you transfer. Additional courses are needed to satisfy graduation requirements for the Associate in Science degree.

General Education Requirements

ENICHICH COMPOCITION I

ENGL& 101	ENGLISH COMPOSITION I	5 cr.
	lls (10 credits required)	
MATH& 151	CALCULUS I	5 cr.
MATH& 152	CALCULUS II	5 cr.
Health & Physica	al Education (3 credits required)	
	ocial Sciences (15 credits required)	
•		

Pre-Major Program Requirements

	•	
CHEM& 141	GENERAL CHEMISTRY I	4 cr.
CHEM& 151	GENERAL CHEMISTRY LABORATORY I	1 cr.
MATH& 153	CALCULUS III	5 cr.
MATH 221	DIFFERENTIAL EQUATIONS	5 cr.
MATH& 254	CALCULUS IV	5 cr.
PHYS& 221	ENGINEERING PHYSICS	5 cr.
PHYS& 222	ENGINEERING PHYSICS	5 cr.
PHYS& 223	ENGINEERING PHYSICS	5 cr.

Elective Requirements*

CHEM& 142	GENERAL CHEMISTRY II	4 cr.
CHEM& 143	GENERAL CHEMISTRY III	4 cr.

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CHEM& 152	GENERAL CHEMISTRY LABORATORY II	1 cr.
CHEM& 153	GENERAL CHEMISTRY LABORATORY III	2 cr.
CS& 131	COMPUTER SCIENCE I C++	5 cr.
CS& 141	COMPUTER SCIENCE I JAVA	5 cr.
CSE 121	INTRODUCTION TO C	5 cr.
CSE 222	INTRODUCTION TO DATA STRUCTURES	5 cr.
ENGR 101	ENGINEERING AND COMPUTER SCIENCE ORIENTATION	1 cr.
ENGR& 104	INTRODUCTION TO DESIGN	5 cr.
ENGR 107	INTRO TO AEROSPACE ENGINEERING	2 cr.
ENGR 109	INTRODUCTION TO ENGINEERING	5 cr.
ENGR 113	ENGINEERING SKETCHING AND VISUALIZATION	2 cr.
ENGR 115	GEOMETRIC DIMENSIONING AND TOLERANCING	2 cr.
ENGR 120	INTRO TO ELECTRICAL/COMPUTER SCI & ENGINEERING	5 cr.
ENGR 121	FIELD SURVEY I	5 cr.
ENGR 140	BASIC AUTOCADD	4 cr.
ENGR 150	BASIC SOLIDWORKS	4 cr.
ENGR 199	COOPERATIVE WORK EXPERIENCE	1-5 cr.
ENGR& 204	ELECTRICAL CIRCUITS	5 cr.
ENGR& 214	STATICS	5 cr.
ENGR& 215	DYNAMICS	5 cr.
ENGR 221	MATERIALS SCIENCE	5 cr.
ENGR& 224	THERMODYNAMICS	5 cr.
ENGR& 225	MECHANICS OF MATERIALS	5 cr.
ENGR 239	MANUFACTURING PROCESSES	5 cr.
ENGR 250	DIGITAL LOGIC DESIGN	5 cr.
ENGR 252	ELECTRICAL CIRCUITS AND SIGNALS	5 cr.
ENGR 253	SIGNALS AND SYSTEMS	5 cr.
ENGR 270	DIGITAL SYSTEMS AND MICROPROCESSORS	5 cr.
ENGR 280	SELECTED TOPICS	1-5 cr.
ENGR 290	SPECIAL PROJECTS	1-6 cr.
ENGL& 235	TECHNICAL WRITING	5 cr.
MATH 215	LINEAR ALGEBRA	5 cr.

Total Required Credits: 90

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English (Transfer)

The Clark College English department offers myriad courses ranging from composition to studies of Shakespeare.

The fundamental courses offered by Clark's English department are designed to teach students to use the library, conduct research, comprehend material, analyze information, evaluate ideas, develop and organize their own ideas, use correct

^{*} Requirements vary by school and program. See an Engineering faculty advisor regarding proper selection.

word choice and grammar, proofread and edit, and improve both their verbal and their written communication.

A four-year degree in English can serve as the foundation for a career in writing, law, business, or education. Many students pursuing a career in secondary education have earned their Associate in Arts transfer degree in English at Clark and continued their coursework at WSU Vancouver, earning their Bachelor of Arts in English and a secondary education certificate, or a master's degree in teaching.

Exceptional English students can earn credit and gain valuable teaching experience working as English tutors. The College's Tutoring/Writing Center provides free assistance to students, aiding them in becoming more effective and evaluative writers.

Because course requirements vary at each institution, students interested in pursuing a four-year degree in English should work with advisors at Clark and their transfer institution to develop a course of study.

English department courses typically transfer to four-year institutions. However, students should contact their transfer institution to clarify each course's transferability.

Environmental Science (Transfer)

Environmental scientists apply mathematics and scientific principles to solve environmental problems. They develop ways to reduce, correct, or prevent damage to the environment.

Following the completion of a Bachelor of Arts or Science degree at a four-year institution of the student's choice, several avenues of employment or advancement are open. A few of these are:

- Environmental engineering
- Environmental law
- State and federal wildlife agencies
- Environmental science teaching at the elementary or secondary level
- Environmental research scientist
- Environmental planning/policy analyst
- Nonprofit environmental organizations

Environmental Science is a highly interdisciplinary field; students interested in careers in the Environmental Sciences will need a fundamental understanding of a variety of sciences and social sciences. Depending on specific career objectives, students pursuing a four-year degree in Environmental Science may want to emphasize additional coursework in such fields as Biology, Chemistry, Physics, Geology, Oceanography, or the Atmospheric Sciences. Students planning careers in Environmental Studies, Environmental Regulation and Policy, or Regional Planning may want to emphasize additional coursework in the Social Sciences, Business, or Economics.

Environmental Science (AST1)

This is a suggested program for the first two years of major study in Environmental Science. Lower-division course requirements will vary depending on the transfer institution. Contact an advisor at the transfer institution to determine required coursework as early as possible.

General Education Requirements

Communication Skills (5 credits required)

ENGLISH COMPOSITION I	5 cr.
(10 credits required)	
CALCULUS I	5 cr.
CALCULUS II	5 cr.
ducation (3 credits required)	
	(10 credits required) CALCULUS I CALCULUS II Education (3 credits required)

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Humanities & Social	Sciences (15 credits required)	
ENVS 231	ENVIRONMENTAL POLITICS	5 cr.
or POLS 231	ENVIRONMENTAL POLITICS	5 cr.
Humanities List A	5 cr.	
Humanities or Socia	al Sciences	5 cr.
Pre-Major Prog	gram Requirements	
BIOL& 221	MAJORS ECOLOGY/EVOLUTION	5 cr.
BIOL& 222	MAJORS CELL/MOLECULAR	5 cr.
BIOL& 223	MAJORS ORGANISMAL PHYS	5 cr.
CHEM& 141	GENERAL CHEMISTRY I	4 cr.
CHEM& 142	GENERAL CHEMISTRY II	4 cr.
CHEM& 143	GENERAL CHEMISTRY III	4 cr.
CHEM& 151	GENERAL CHEMISTRY LABORATORY I	1 cr.
CHEM& 152	GENERAL CHEMISTRY LABORATORY II	1 cr.
CHEM& 153	GENERAL CHEMISTRY LABORATORY III	2 cr.
MATH 203	DESCRIPTIVE STATISTICS	3 cr.
MATH 204	INFERENTIAL STATISTICS	3 cr.
Program Requi	irements	
ENGL& 102	ENGLISH COMPOSITION II	5 cr.
or ENGL 109	WRITING ABOUT THE SCIENCES	5 cr.
ENVS 211	INTRO TO ENVIRONMENTAL SYSTEMS	5 cr.
ENVS 221	ENVIRONMENTAL SCIENCE: PROBLEM SOLVING	5 cr.
GEOL 102	INTRO TO GEOL II: EARTH'S SURFACE PROCESSES	5 cr.
PHYS& 121	GENERAL PHYSICS I	5 cr.
or PHYS& 221	ENGINEERING PHYSICS	5 cr.
Suggested Elec	ctives	
GEOL& 101	INTRO PHYSICAL GEOLOGY	5 cr.
PHYS& 122	GENERAL PHYSICS II	5 cr.
or PHYS& 222	ENGINEERING PHYSICS	5 cr.
PHYS& 123	GENERAL PHYSICS III	5 cr.
or PHYS& 223	ENGINEERING PHYSICS	5 cr.
SURV 125	INTRODUCTION TO GIS	3 cr.
8-	Total Dawins d Crad	:4 00 : :

Total Required Credits: 90 minimum

Fitness Trainer

The Fitness Trainer program at Clark is a 90-credit (2-year) program. Upon completion of the program requirements, students will earn an Associate in Applied Science degree. Fitness Training is an emerging profession within the health care industry in the field of preventive medicine. Fitness Trainers have the opportunity to make a positive difference in people's health and quality of life. Students will develop knowledge, skills, and abilities necessary for working with clients who are interested in improving their health through fitness. Coursework will include theory and practical application courses related to fitness training.

In order to progress from one course or quarter to the next, students enrolled in the Clark College Fitness Trainer program must earn at least a cumulative GPA of 2.0 (C average) for their General Education classes, and a 2.0 or higher in each Fitness Trainer Specialty class. Fitness Trainer Specialty classes have limited seats available.

Students who are interested in this program should refer to the Fitness Trainer website at www.clark.edu/fitnesstrainer and follow the direction given on the "Get Started" page (right-hand menu item).

Student Learning Outcomes

- Communicate exercise-science related principles at levels appropriate to both clients and professional peers.
- Use appropriate strategies to motivate clients to adopt healthier behaviors.
- Design fitness plans for healthy adults, special populations (e.g., pregnant women, elderly, those with chronic diseases, etc.), and performance-oriented clients (e.g., those training to better perform a sport) utilizing appropriate principles of safe and effective exercise prescription.
- Design fitness-related assessments on clients.
- Effectively instruct clients how to perform safe and effective exercise technique.
- Exhibit a foundation of professional and business-related skills necessary for becoming a personal trainer.
- Be prepared for a nationally accredited Fitness Trainer certification exam.

Students who complete the Fitness Trainer program at Clark College may choose to continue on to earn a Bachelor of Arts degree in **Exercise and Sports Science** from Concordia University in Portland or from Central Washington University. Please see a faculty advisor for additional information about transfer options and requirements.

For information regarding the application process, preliminary requirements, and final admission process, please refer to www.clark.edu/fitnesstrainer online.

Fitness Trainer (AAS)

General Education Requirements

Communication Skills (6 credits required)

ENGL& 101	ENGLISH COMPOSITION I	5 cr.
BUS 211	BUSINESS COMMUNICATIONS	3 cr.
or ENGL& 102	ENGLISH COMPOSITION II	5 cr.
or ENGL 109	WRITING ABOUT THE SCIENCES	5 cr.
-	l Education (3 credits required)	
HPE 258	FITNESS-WELLNESS	3 cr.
	kills (3 credits required)	
MATH 090	ELEMENTARY ALGEBRA	5 cr.
or MATH 091	ALGEBRA II	5 cr.

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Human Relations ((3 credits required)	
CMST& 210	INTERPERSONAL COMMUNICATION *	5 cr.
Humanities (3 cred	dits required)	
Social Sciences (3	credits required)	
PSYC& 100	GENERAL PSYCHOLOGY	5 cr.
or PSYC& 200	LIFESPAN PSYCHOLOGY	5 cr.
Natural Sciences (3	3 credits required)	
BIOL 164	HUMAN BIOLOGY **	4 cr.
BIOL 165	HUMAN BIOLOGY LAB **	1 cr.
Major Area Re	equirements	
FT 101	FITNESS TRAINER SEMINAR	1 cr.
FT 151	FITNESS CENTER SKILLS	2 cr.
FT 152	FLEXIBILITY, POSTURE AND CORE	2 cr.
FT 153	EXERCISE TECHNIQUES	2 cr.
FT 154	POWER DEVELOPMENT	2 cr.
or FT 155	GROUP FITNESS INSTRUCTOR (offered Summer Quarter)	2 cr.
FT 200	NUTRITION FOR FITNESS	3 cr.
FT 210	WELLNESS COACHING	3 cr.
FT 220	FACILITY MANAGEMENT	3 cr.
FT 230	FITNESS TESTING	3 cr.
FT 250	STRUCTURAL KINESIOLOGY	3 cr.
FT 251	EXERCISE PHYSIOLOGY	4 cr.
FT 260	EXERCISE PRESCRIPTION I-HEALTHY POPULATIONS	5 cr.
FT 261	EXERCISE PRESCRIPTION II-SPECIAL POPULATIONS	5 cr.
FT 262	EXERCISE PRESCRIPTION III-PERFORMANCE TRAINING	4 cr.
FT 270	PROFESSIONAL ASPECTS OF FITNESS TRAINING	3 cr.
FT 275	FITNESS TRAINING INTERNSHIP	4 cr.
FT 290	SPECIAL PROJECTS	1-5 cr.
FT 299	FINAL SKILL ASSESSMENT	1 cr.
HLTH 100	FOOD AND YOUR HEALTH	2 cr.
PE 291	CARE AND PREVENTION OF ATHLETIC INJURIES	3 cr.
Additional Ma	ajor Area Requirements	
Elective(s)***		3 cr.
**************************************	Total Required	Credits: 90-92

^{*} CMST& 210 fulfills Humanities and Human Relations requirements.

^{**} BIOL& 251, 252, and 253 can substitute for BIOL 164/165.
*** Suggested Electives (can be taken any quarter) - any Health, HPE, PE, Business or Management courses.

Group Fitness Instructor (CERT)

The Fitness Trainer Program's Group Fitness Instructor Certificate of Completion program prepares students with the necessary knowledge, skills and abilities to become group fitness instructors. Students completing the program may take the ACE& trade; Group Fitness Instructor certification exam that is hosted at Clark College shortly after completing the program requirements listed below.

Program Outcomes

- Apply appropriate skills as a group fitness instructor.
- Prepared for a group fitness national certification exam.
- Apply basic principles of fitness.

Major Area Requirements

FT 150	FUNDAMENTALS OF FITNESS	3 cr.
or FT 260	EXERCISE PRESCRIPTION I-HEALTHY POPULATIONS	5 cr.
FT 155	GROUP FITNESS INSTRUCTOR	2 cr.
HLTH 120	ADULT CPR AND FIRST AID	1 cr.
or FT 220	FACILITY MANAGEMENT	3 cr.

Total Required Credits: 6-10

General Science Education (Transfer)

This is a state-approved transfer program for the first two years of major study in general sciences for future secondary general science teachers. Lower-division course requirements will vary depending on the transfer institution. Contact an advisor at the transfer institution to determine required coursework as early as possible.

General Science Education (AST1)

The following is a degree program designed by a consortium of two-year and four-year colleges in Washington. Students should be aware that baccalaureate institutions may have slightly different requirements for these degrees, and students should consult the transfer institution for exact questions.

Students should complete the entirety of any science sequence at the same school for best transferability. These degrees are not DTA degrees, and there are some general education requirements that students will need to finish upon transfer.

Though this degree does not require such, Clark College students should know that the standard Clark AS degree path has this difference from the Articulated Degree defined below:

• Clark requires 3 credits of Health-Physical Education coursework.

Students must also meet the residency requirements as established by Clark. While Clark College has approved offering the degree below, Clark students should keep these requirements in mind should their transfer pathways change.

Students completing this Associate of Science will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the direct transfer associate degree and will be given junior status by the receiving institution.

Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring.

For more information, please visit the Major Related Programs/Articulated Degrees section of this catalog.

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Generic Requirements

A. Basic Requirements

1. Communication Skills 5 cr.

2. Quantitative/Symbolic Reasoning Requirement

5 cr.

Intermediate algebra proficiency is required.

B. Distribution Requirements

1. Humanities 15 cr.

15 credits of humanities and social science with at least five credits taken from each. Three different subjects required. No more than 5 credits of performance classes are allowed.

2. Science Pre-major Requirement

- Chemistry for science majors sequence (15 quarter credits)
- Third-quarter calculus or approved statistics course (5 quarter credits)
- Biology for science majors or physics (calculus or non-calculus based) (15 quarter credits)
- Additional requirements: 10 15 quarter credits in physics, geology, organic chemistry, biology, or mathematics, consisting of courses normally taken for science majors (not general education), preferably in a 2- or 3-quarter sequence.

C. Electives

1. Elective Courses

Additional college-level courses so that total earned is at least 90 credits. May include prerequisites for major courses (e.g. pre-calculus), additional major coursework, or specific general education or other university requirements, as approved by the advisor.

Articulated Degree Requirements

A. Basic Requirements

1. English Composition

5 cr.

2. Quantitative/Symbolic Reasoning Requirement

Calculus

10 cr.

Intermediate algebra proficiency is required.

B. Distribution Requirements

1. Humanities/Fine Arts/English & Social Sciences

5 quarter credits Introductory Speech

5 quarter credits General Psychology

2. Science Pre-major Requirement

• 5 quarter credits statistics

PLUS

THREE OUT OF FOUR OF THE FOLLOWING:

- 15 quarter credits General Chemistry
- 15 quarter credits Biology for Majors
- 15 quarter credits Physics (algebra or calc-based)

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• 10 quarter credits Geology (physical and historical) C. Electives 1. Elective Courses 10-15 credits, depending on pathways above. 5 additional quarter credits of English composition. Field Experience or Intro to Education recommended. 15 quarter credits of Physics recommended. **Clark College Equivalents** A. Basic Requirements 1. Communication Skills ENGL& 101 **ENGLISH COMPOSITION I** 5 cr. 2. Quantitative/Symbolic Reasoning Requirements MATH& 151 CALCULUS I 5 cr. MATH& 152 **CALCULUS II** 5 cr. **B. Distribution Requirements** 1. Humanities/Fine Arts/English & Social Sciences CMST& 220 PUBLIC SPEAKING 5 cr. PSYC& 100 GENERAL PSYCHOLOGY 5 cr. Plus 5 additional HUM or SS credits 2. Science Pre-major Requirement **MATH 203 DESCRIPTIVE STATISTICS** 3 cr. and MATH 204 INFERENTIAL STATISTICS 3 cr. PLUS three of four of these sequences: 1. Chemistry **CHEM& 141** GENERAL CHEMISTRY I 4 cr. CHEM& 142 GENERAL CHEMISTRY II 4 cr. CHEM& 143 GENERAL CHEMISTRY III 4 cr. CHEM& 151 GENERAL CHEMISTRY LABORATORY I 1 cr. CHEM& 152 GENERAL CHEMISTRY LABORATORY II 1 cr. CHEM& 153 GENERAL CHEMISTRY LABORATORY III 2 cr. 2. Biology BIOL& 221 MAJORS ECOLOGY/EVOLUTION 5 cr. **BIOL& 222** MAJORS CELL/MOLECULAR 5 cr. BIOL& 223 MAJORS ORGANISMAL PHYS 5 cr. 3. Physics

5 cr.

5 cr.

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ENGINEERING PHYSICS

ENGINEERING PHYSICS

PHYS& 221

PHYS& 222

PHYS& 223	ENGINEERING PHYSICS	5 cr.
4. Geology		
GEOL& 101	INTRO PHYSICAL GEOLOGY	5 cr.
GEOL& 103	HISTORICAL GEOLOGY	5 cr.
C. Electives		
1. Elective Course	s	
ENGL& 102	ENGLISH COMPOSITION II Required	5 cr.
EDUC& 201	INTRODUCTION TO EDUCATION	3 cr.
and EDUC 210	INTRODUCTORY FIELD EXPERIENCE	3 cr.
5 additional credit	ts required if only 45 credits are taken in the major area above	e (if Geology is chosen

Plus additional credits to reach 90 minimum quarter credits. These may include needed college-level calculus prerequisites.

Notes

A. Basic Requirements

2. Quantitative/Symbolic Reasoning

Pre-Calculus courses do not meet this requirement.

B. Distribution Requirements

1. Humanities/Fine Arts/English & Social Sciences

Courses in Humanities/Social Science must come from the current ICRC distribution list in order to count as General Education or General University Requirements (GERs/GURs) at the receiving institution. Additional general educational requirements, cultural diversity requirements, and foreign language requirements, as required by the transfer institution, must be met prior to the completion of a baccalaureate degree.

2. Science Pre-major Requirement

Students should be advised that some baccalaureate institutions require physics with calculus to meet this requirement.

C. Electives

1. Elective Courses

A maximum of five (5) quarter credits of "gray area" courses will be accepted in the remaining credits category.

Total Required Credits: 90

Geology (Transfer)

Geology is the study of the Earth's chemistry, physics, and history. Geologists work to understand the complex systems at work in our planet and, through this work, to understand the origin and evolution of the landscapes that surround us. Geologists work in natural resource development, natural hazard management, environmental monitoring, and pollution mitigation. Research subjects encompass everything from glacier systems to volcanoes to the fossil history of the evolution of life.

Career Opportunities

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Careers in Geology generally require advanced degrees. Here at Clark College, you can begin a program that will lead to advanced degrees at any major university.

Job opportunities through private, federal, and state agencies exist in:

Climate Change Studies

Energy

Environmental Monitoring and Mitigation

Geological Engineering

Mining

Petroleum

Geology (AST1)

This is a suggested program for the first two years of major study in Geology. Lower-division course requirements will vary depending on the transfer institution. Contact an advisor at the transfer institution to determine required coursework as early as possible. Additional courses are needed to satisfy graduation requirements for the Associate in Science or the Associate in Arts degree.

General Education Requirements

Communication	Skills (5	credits rec	uired)
Communication	JKIIIJ (J	, creares rec	luii eu/

ENGL& 101	ENGLISH COMPOSITION I	5 cr.
Quantitative Skills	s (10 credits required)	
MATH& 151	CALCULUS I	5 cr.
MATH& 152	CALCULUS II	5 cr.
Health & Physical	Education (3 credits required)	
HPE 258	FITNESS-WELLNESS	3 cr.
or HLTH Health co	urse	2 cr.
and PE Activity Co	ourse	1 cr.
Humanities & Soci	ial Sciences (15 credits required)	
CMST& 220	PUBLIC SPEAKING	5 cr.
Pre-Major Pro	ogram Requirements	
GEOL& 101	INTRO PHYSICAL GEOLOGY	5 cr.
GEOL 102	INTRO TO GEOL II: EARTH'S SURFACE PROCESSES	5 cr.
GEOL 218	FIELD STUDIES IN GEOLOGY	1-6 cr.
MATH& 153	CALCULUS III	5 cr.
ENGL& 102	ENGLISH COMPOSITION II	5 cr.
Chemistry Sequer	nce- minimum 16 credits	
CHEM& 141	GENERAL CHEMISTRY I	4 cr.
CHEM& 142	GENERAL CHEMISTRY II	4 cr.
CHEM& 143	GENERAL CHEMISTRY III	4 cr.
CHEM& 151	GENERAL CHEMISTRY LABORATORY I	1 cr.
CHEM& 152	GENERAL CHEMISTRY LABORATORY II	1 cr.
CHEM& 153	GENERAL CHEMISTRY LABORATORY III	2 cr.
Additional Science	e Sequence Requirements- 15 credits	

PHYS& 221	ENGINEERING PHYSICS	5 cr.
PHYS& 222	ENGINEERING PHYSICS	5 cr.
PHYS& 223	ENGINEERING PHYSICS	5 cr.

Total Required Credits: 90

Health & Physical Education (Transfer)

There are a wide variety of career opportunities available with a degree in Health and/or Physical Education. Students may seek jobs in fitness training, fitness center management, coaching, wellness promotion, preventative health care, or nutrition, for example. Advanced degrees would prepare students for careers in sports medicine, athletic training, sports psychology, health education, physical education, physical therapy, biomechanics/kinesiology and integrative medicine. Qualified applicants usually have a strong science background with exemplary communication skills.

Students interested in careers in any of these fields may wish to see a member of the Health and Physical Education (HPE) Division for advising at the earliest possible time in their academic pursuits. It is important for students to make a decision about which four-year institution they will attend in order to expedite their college experience.

Related Programs

FITNESS TRAINER

Please see the Fitness Trainer program curriculum in the Career and Technical Programs section of the Clark College Catalog. Information is also available on the Clark College website at www.clark.edu/fitnesstrainer.

GROUP FITNESS INSTRUCTOR

Please find the requirements for this Certificate of Completion in the Program Information for Fitness Trainer.

International Studies Certificate

The International Studies Certificate Program recognizes the growing importance of global interdependence and diversity. It is of special interest to students planning careers in fields emphasizing backgrounds in such areas as foreign languages, regional studies, business, and economics.

International Studies Certificate

For students in World Languages (French, German, Japanese, or Spanish) interested in emphasizing courses with a strong international focus as they complete the distribution requirements for their Associate of Arts degree.

To earn the Certificate (which appears as a special notation on the transcript), students must complete 25 credits in Core Courses and 15 credits in additional approved international electives. Students must complete each required core class with a grade of "C" or above.

International Studies (CERT)

The International Studies Certificate Program allows students to earn two years of foreign language credit while meeting the distribution requirements for the Associate in Arts degree.

Certificate Requirements

- Students must complete the General Education Requirements for the Associate in Arts degree as listed in the Clark College Catalog.
- Students must complete 25 credits of international core classes and an additional 15 credits of ap-

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Required Core Courses (25 credits required)

World Language (15 credits required)

World Language	(15 creates required)	
15 credits of & 20	0-level courses in one language (French, German, Japanese or Span	ish)
Communication S	Skills (5 credits required)	
CMST 216	INTERCULTURAL COMMUNICATION	5 cr.
History or Politica	al Sciences (5 credits required) choose one	
HIST& 126	WORLD CIVILIZATIONS I	5 cr.
or HIST& 127	WORLD CIVILIZATIONS II	5 cr.
or HIST& 128	WORLD CIVILIZATIONS III	5 cr.
or POLS& 203	INTERNATIONAL RELATIONS	5 cr.
Approved Int	ternational Electives (15 credits required)	
ANTH& 206	INTRODUCTION TO CULTURAL ANTHROPOLOGY	5 cr.
ART 225	ART HISTORY: ASIAN ART	5 cr.
ART 226	TOPICS IN NON-WESTERN ART	1-9 cr.
BIOL 101	ENVIRONMENTAL BIOLOGY	5 cr.
ECON 110	INTRODUCTION TO THE GLOBAL ECONOMY	5 cr.
ECON 111	THE ECONOMIES OF THE PACIFIC RIM	5 cr.
ECON 112	THE ECONOMIES OF THE AMERICAS	5 cr.
ECON 120	INTERNATIONAL ECONOMICS	3 cr.
ENGL 261	WORLD LITERATURE	3 cr.
or ENGL 262	WORLD LITERATURE	3 cr.
ENGL 266	BRITISH LITERATURE	3 cr.
GEOG 107	ECONOMIC GEOGRAPHY	5 cr.
or ECON 107	ECONOMIC GEOGRAPHY	5 cr.
HIST 221	EAST ASIAN HISTORY	5 cr.
HIST 231	HISTORY OF GENOCIDE	3 cr.
HIST 253	WOMEN IN HISTORY-INDUST AGE TO MODERN TIMES	3 cr.
HIST 275	AFRICAN-AMERICAN HISTORY	5 cr.
HIST 285	HISTORY OF LATIN AMERICA	5 cr.
HLTH 210	MULTICULTURAL HEALTH	2 cr.
HUM& 101	INTRO TO HUMANITIES	5 cr.
JAPN 171	JAPANESE SOCIETY	3 cr.
MUSC 117	MUSIC HISTORY	5 cr.
MUSC 127	WORLD FOLK MUSIC	3 cr.
PHIL 116	INTRODUCTION TO EARLY MODERN PHILOSOPHY	5 cr.
or PHIL 117	INTRODUCTION TO LATE MODERN PHILOSOPHY	5 cr.
POLS 151	MODEL UNITED NATIONS	2 cr.

POLS 153 MODEL UNITED NATIONS 2 co	2 cr.
	2 cr.
	3 cr.
POLS 220 THE GEOPOLITICS OF THE MIDDLE EAST 5 cm	5 cr.
POLS 221 THE GEOPOLITICS OF AFRICA 5 cm	5 cr.
POLS 222 THE GEOPOLITICS OF CHINA, JAPAN & EAST ASIA 5 cm	5 cr.
POLS 223 THE GEOPOLITICS OF SOUTH AND CENTRAL ASIA 5 cm	5 cr.
WS 201 WOMEN AROUND THE WORLD 3 cm	3 cr.

Journalism

Journalism offers more opportunities to meet interesting people than just about any other career. At the same time, journalism provides experiences that can be useful in many other fields: technical writing, law, politics, publishing, and public relations.

Students interested in pursuing a career in journalism should take Clark's basic sequence of news writing and editing courses and should work on the student newspaper, *The Independent*.

Several paid positions are available each year for student editors; expertise in computer graphics is desirable.

In addition to Clark's journalism courses, students should take a variety of courses that offer a broad general education and prepare them to transfer to a four-year school offering a degree in journalism or a related field. CMST& 102 offers a foundation for understanding how the media function in our society and is highly recommended. ENGL& 101, 102 and ENGL 103 will improve the ability to write clearly and do documented research accurately. Courses in the social sciences (particularly political science), history, literature, and science will provide a background for accurate reporting and the interpretation of data.

Students should make every effort to develop relevant computer skills while at the community college. These skills include word processing, electronic publishing, computer graphics, and the Internet.

Because course requirements vary at each institution, students interested in pursuing a four-year degree in Journalism should work with advisors at Clark and their transfer institution to develop a course of study.

Journalism courses typically transfer to four-year institutions. However, students should contact their transfer institution to clarify each course's transferability.

Machining Technology

The machinist's craft is basic to all American industrial production. It is the machinist's task to interpret the engineer's drawings in order to fabricate new machines and products.

Machinists operate various types of material-removing equipment such as lathes, milling machines, grinders, and computerized numerical control (CNC) machines. Some machinists specialize in the operation of one type of machine while others work in a shop where they are required to perform equally well on several different machines.

Clark College's program offers instruction in numerous machine processes including the set-up and operation of the engine lathe, surface grinders, cylindrical grinder, horizontal and vertical mill, CNC lathes, EDM and milling machines.

All shop theory subjects have a direct bearing on the student's skill, safety, and attitude. In addition to shop theory and practice, the student studies math, blueprint reading, metallurgy, safety, and computer-aided manufacturing (CAM) programming.

MasterCAM programming classes teach basic CAM programming for mills, lathe, EDM, etc. The basic CNC class involves writing programs and learning to safely operate the HAAS CNC mills.

Beginning and advanced night classes are also available.

Students must complete all Major Area Requirements and specifically listed courses with a minimum grade of "C" or better in order to successfully complete the program and earn the award.

Refer to the Degree & Certificate Requirements Section of the Clark College Catalog to identify the courses needed to satisfy the General Education Requirements.

Machining Technology (CP)

General Education Requirements

Computational Skills (3 credits required)

MATH 085	INDUSTRIAL MATHEMATICS	5 cr.
Communication	Skills (3 credits required)	
Human Relation	ns (3 credits required)	
Major Area l	Requirements	
MACH 111	BASIC GENERAL MACHINING PROCESSES	5 cr.
MACH 112	BASIC ENGINE LATHE PROCESSES II	5 cr.
MACH 113	BASIC VERTICAL MILLING PROCESSES I	5 cr.
MACH 121	BASIC SURFACE GRINDER PROCESSES I	5 cr.
MACH 122	BASIC ENGINE LATHE PROCESSES II	5 cr.
MACH 123	BASIC VERTICAL MILLING PROCESSES II	5 cr.
MACH 131	BASIC SURFACE GRINDER PROCESSES II	5 cr.
MACH 132	BASIC ENGINE LATHE PROCESSES III	5 cr.
MACH 133	BASIC VERTICAL MILLING PROCESSES III	5 cr.
MACH 211	ADVANCED SURFACE GRINDER PROCESSES III	5 cr.
MACH 212	ADVANCED ENGINE LATHE PROCESSES IV	5 cr.
MACH 213	ADVANCED CNC MILLING SETUP AND OPERATION	5 cr.
MACH 221	SURFACE GRINDER AND PROCESSES II	5 cr.
MACH 222	CNC LATHE SETUP AND OPERATION	5 cr.
MACH 223	CNC MILL MASTER CAM PROGRAMMING	5 cr.
MACH 231	ADVANCED EDM PROCESSES	5 cr.
MACH 232	ADVANCED CNC LATHE PROGRAMMING	5 cr.
MACH 233	ADVANCED MILLING 3D PROGRAMMING & MACHINING	5 cr.
Related Red	uired Classes	
MACH 106	MECHANICAL BLUEPRINT READING	4 cr.
MACH 235	ELEMENTARY METALLURGY	2 cr.
MACH 236	ELEMENTARY METALLURGY LAB	2 cr.
1117 (CI I ZJU	Total Required	
	Total negative	* C. Caits. 103

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Machining Technology (AAS)

General Education Requirements

Communication	n Skills (6 credits required)	
Health & Physic	al Education (3 credits required)	
	Skills (3 credits required)	
MATH 085	INDUSTRIAL MATHEMATICS	5 cr.
Human Relation	ns (3 credits required)	
	redits required)	
	(3 credits required)	
Natural Scie	ences (3 credits required)	Major Area Requirements

ivaturar ocie	inces (5 credits required) Major Area N	equirements
MACH 111	BASIC GENERAL MACHINING PROCESSES	5 cr.
MACH 112	BASIC ENGINE LATHE PROCESSES II	5 cr.
MACH 113	BASIC VERTICAL MILLING PROCESSES I	5 cr.
MACH 121	BASIC SURFACE GRINDER PROCESSES I	5 cr.
MACH 122	BASIC ENGINE LATHE PROCESSES II	5 cr.
MACH 123	BASIC VERTICAL MILLING PROCESSES II	5 cr.
MACH 131	BASIC SURFACE GRINDER PROCESSES II	5 cr.
MACH 132	BASIC ENGINE LATHE PROCESSES III	5 cr.
MACH 133	BASIC VERTICAL MILLING PROCESSES III	5 cr.
MACH 211	ADVANCED SURFACE GRINDER PROCESSES III	5 cr.
MACH 212	ADVANCED ENGINE LATHE PROCESSES IV	5 cr.
MACH 213	ADVANCED CNC MILLING SETUP AND OPERATION	5 cr.
MACH 221	SURFACE GRINDER AND PROCESSES II	5 cr.
MACH 222	CNC LATHE SETUP AND OPERATION	5 cr.
MACH 223	CNC MILL MASTER CAM PROGRAMMING	5 cr.
MACH 231	ADVANCED EDM PROCESSES	5 cr.
MACH 232	ADVANCED CNC LATHE PROGRAMMING	5 cr.
MACH 233	ADVANCED MILLING 3D PROGRAMMING & MACHINING	5 cr.

Related Required Classes

MACH 106	MECHANICAL BLUEPRINT READING	4 cr.
MACH 235	ELEMENTARY METALLURGY	2 cr.
MACH 236	ELEMENTARY METALLURGY LAB	2 cr.

Total Required Credits: 124

Machining Technology (AAT)

General Education Requirements

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Communication Skill	ls (5 credits required)	
Computational Skills	(5 credits required)	
Human Relations (5 d	credits required)	
Major Area Req	uirements	
MACH 111	BASIC GENERAL MACHINING PROCESSES	5 cr.
MACH 112	BASIC ENGINE LATHE PROCESSES II	5 cr.
MACH 113	BASIC VERTICAL MILLING PROCESSES I	5 cr.
MACH 121	BASIC SURFACE GRINDER PROCESSES I	5 cr.
MACH 122	BASIC ENGINE LATHE PROCESSES II	5 cr.
MACH 123	BASIC VERTICAL MILLING PROCESSES II	5 cr.
MACH 131	BASIC SURFACE GRINDER PROCESSES II	5 cr.
MACH 132	BASIC ENGINE LATHE PROCESSES III	5 cr.
MACH 133	BASIC VERTICAL MILLING PROCESSES III	5 cr.
MACH 211	ADVANCED SURFACE GRINDER PROCESSES III	5 cr.
MACH 212	ADVANCED ENGINE LATHE PROCESSES IV	5 cr.
MACH 213	ADVANCED CNC MILLING SETUP AND OPERATION	5 cr.
MACH 221	SURFACE GRINDER AND PROCESSES II	5 cr.
MACH 222	CNC LATHE SETUP AND OPERATION	5 cr.
MACH 223	CNC MILL MASTER CAM PROGRAMMING	5 cr.
MACH 231	ADVANCED EDM PROCESSES	5 cr.
MACH 232	ADVANCED CNC LATHE PROGRAMMING	5 cr.
MACH 233	ADVANCED MILLING 3D PROGRAMMING & MACHINING	5 cr.
Related Require	ed Classes	
MACH 106	MECHANICAL BLUEPRINT READING	4 cr.
MACH 235	ELEMENTARY METALLURGY	2 cr.
MACH 236	ELEMENTARY METALLURGY LAB	2 cr.
MATH 085	INDUSTRIAL MATHEMATICS	5 cr.

Total Required Credits: 118

Math Education (Transfer)

The mathematics program at Clark College prepares students for successful study at four-year colleges and universities. At the university level, the student may prepare for a career in industry, government, or teaching. Students who intend to enter the job market before graduate school should have exposure to the natural, social, and applied sciences.

A variety of resources are available which help students with differing learning styles understand mathematical concepts. At Clark, computers, graphing calculators and other technology are integrated into classroom teaching and research.

The math department maintains a Web page that provides information about faculty members, course descriptions and online general advising for selecting a math course. Advice to help students succeed in math courses, along with

instructional materials for some math classes, can be found on the website.

The Math Help Session is staffed 25-30 hours each week by department instructors to assist students who drop by for individual help with homework or understanding math concepts. New evening hours have also been added for night students at the Help Session.

Students who need to brush up on basic math skills will find classes in both the math and developmental education departments that prepare them for success before tackling college-level coursework. Single-credit classes to learn to use graphing calculators and for overcoming math anxiety are also offered.

Math Education - DTA/MRP (AA)

This pathway is applicable to students planning to prepare for math education majors at the secondary level at universities in Washington. Students need to make early contact with their potential transfer institutions regarding the specific course choices in each area of the agreement where options are listed. Students also need to check with their potential transfer institutions regarding the requirement for overall minimum GPA, a higher GPA in a selected subset of courses, or a specific minimum grade in one or more courses such as math or English.

Though this degree does not require such, Clark College students should know that the standard Clark AA degree path has these differences from the MRP defined below:

- Clark requires 3 credits of Health-Physical Education coursework, and
- As of Fall 2011, Clark requires a course in Oral Communication, and
- Clark's Social Science distribution requirement stipulates that students take courses from at least three different departments.

Students must also meet the residency requirements as established by Clark. While Clark College has approved offering the degree below, Clark students should keep these requirements in mind should their transfer pathways change.

Students are responsible for researching and preparing for specific major requirements of baccalaureate institutions as early as possible prior to transferring.

For more information, please visit the Major Related Programs/Articulated Degrees section of this catalog.

Generic DTA Requirements

A. Basic Requirements

1. Communication Skills	10 cr.
2. Quantitative/Symbolic Reasoning Requirements	5 cr.
Intermediate algebra proficiency is required.	
B. Distribution Requirements	
1. Humanities	15 cr.
2. Social Sciences	15 cr.
3. Natural Sciences	3 cr.
C. Major Requirements	
1. Math courses	
2. Education courses	
3. Elective Courses	

MRP Requirements

A. Basic Requirem	ents
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1. English Composition	10 cr.
2. First-quarter Calculus	5 cr.
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Intermediate algebra proficiency is required.

B. Distribution Requirements

1. Humanities

Introductory Speech and 10 credits of other humanities

Consistent with the requirements in all DTA degrees - no more than 10 credits per discipline area, 5 credits maximum in world languages or ASL. No more than 5 credits of performance/skills classes are allowed.

2. Social Sciences 15 cr.

Intro to Psychology (5 cr.)

Other social sciences (10 cr.)

3. Natural Sciences 15 cr.

2nd-quarter calculus

10 credits physical, biological, and/or earth science, including at least one lab course

C. Major Requirements

1. Math courses

3rd and 4th-quarter calculus

Linear Algebra

2. Education Courses

Field Experience/Intro to Education

Clark College Equivalents

A. Basic Requirements

1. Communication Skills

ENGL& 101	ENGLISH COMPOSITION I	5 cr.
ENGL& 102	ENGLISH COMPOSITION II	5 cr.
2 Quantitative/Symbolic Reasoning Requirements		

2. Quantitative/Symbolic Reasoning Requirements

MATH& 151 CALCULUS I 5 cr.

B. Distribution Requirements

1. Humanities

CMST& 220	PUBLIC SPEAKING Fulfills oral communication requirement	5 cr.		
10 other credits of humanities meeting the stipulations for the DTA				

2. Social Sciences

5 cr.

10 credits of social science (maximum of 5 cr. additional psychology)

3. Natural Sciences

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MATH& 152	CALCULUS II		5 cr.
10 credits of natur	al science course work, including one lab, as def	ined by Clark College	
C. Major Requirem	ents		
1. Math Courses			
MATH& 153	CALCULUS III		5 cr.
MATH 215	LINEAR ALGEBRA		5 cr.
MATH& 254	CALCULUS IV		5 cr.
2. Education Cours	ses		
EDUC& 201	INTRODUCTION TO EDUCATION		3 cr.
EDUC 210	INTRODUCTORY FIELD EXPERIENCE		3 cr.
D. Electives			
1. Elective Courses	;		
9 credits of electiv	es as defined under MRP Requirements		
		Total Required Cred	lits: 90

Mathematics (Transfer)

Advances in science, technology, social science, business, industry, and government are dependent upon precise analysis and the extraction of information from large quantities of data. Environmental problems, for example, require careful analysis by persons with skills in mathematics, computer science, biology, geology, physics, and business.

The mathematics program at Clark College prepares students for successful study at four-year colleges and universities. At the university level, the student may prepare for a career in industry, government, or teaching. Students who intend to enter the job market before graduate school should have exposure to the natural, social, and applied sciences.

A variety of resources are available which help students with differing learning styles understand mathematical concepts. At Clark, computers, graphing calculators and other technology are integrated into classroom teaching.

The math department maintains a Web page that provides information about faculty members, course descriptions and online general advising for selecting a math course. Advice to help students succeed in math courses, along with instructional materials for some math classes, can be found on the website.

The math department staffs several help facilities to assist students on a drop-in basis. Assistance is provided by faculty and trained helpers.

Students who need to brush up on basic math skills will find classes in both the math and developmental education departments that prepare them for success before tackling college-level coursework.

General - Mathematics (suggested) (AA)

This is a suggested program for the first two years of major study in Mathematics. Lower-division course requirements will vary depending on the transfer institution. Contact an advisor at the transfer institution to determine required coursework as early as possible.

General Education Requirements

Communication Skills (10 credits required)

ENGL& 101 ENGLISH COMPOSITION I 5 cr.

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ENGL& 102	ENGLISH COMPOSITION II	5 cr.
or ENGL 109	WRITING ABOUT THE SCIENCES	5 cr.
Quantitative Skill	ls (5 credits required)	
MATH& 151	CALCULUS I	5 cr.
Health & Physical	Education (3 credits required)	
HPE 258	FITNESS-WELLNESS	3 cr.
or HPE 266	MIND BODY HEALTH	3 cr.
Oral Communicat	tions (5 credits required)	
CMST& 220	PUBLIC SPEAKING	5 cr.
Humanities (15 cı	redits required)	
PHIL& 106	INTRODUCTION TO LOGIC	5 cr.
Social Sciences (1	5 credits required)	
ECON& 201	MICRO ECONOMICS	5 cr.
or ECON& 202	MACRO ECONOMICS	5 cr.
Natural Sciences	(15 credits required)	
PHYS& 221	ENGINEERING PHYSICS	5 cr.
PHYS& 222	ENGINEERING PHYSICS	5 cr.
Elective Requ	uirements	
MATH& 152	CALCULUS II	5 cr.
MATH& 153	CALCULUS III	5 cr.
MATH 205	DISCRETE MATHEMATICS	5 cr.
MATH 215	LINEAR ALGEBRA	5 cr.
MATH 221	DIFFERENTIAL EQUATIONS	5 cr.
MATH& 254	CALCULUS IV	5 cr.
PHYS& 223	ENGINEERING PHYSICS	5 cr.
Pre-100 Class	ses Required	
PHYS 094	PHYSICS CALCULATIONS	1 cr.
PHYS 095	PHYSICS CALCULATIONS	1 cr.
PHYS 096	PHYSICS CALCULATIONS	1 cr.
**************************************	Т	otal Required Credits: 106

Mechanical, Civil & Aeronautical Engineering (Transfer)

Engineering is a profession where you are challenged to develop creative solutions to problems related to every aspect of life, through the application of mathematical and scientific principles, experience, creativity, and common sense.

Mechanical engineering is a diverse discipline which can include robotics, consumer electronics, automotive, appliances, energy-sustainable and clean fuels, aerospace, medical innovations, amusement park rides, toys, and nanotechnology.

Civil engineers work in many areas essential to modern life such as construction, architecture, environmental engineering, power generation, public works and highway departments, or the federal government. Civil engineers are at the forefront of efforts to design inexpensive yet effective ways to ensure that people living in these regions have access to potable water.

Aeronautical engineering expertise is innovative in space exploration but also pioneering in other industries such as automobile manufacturing. Aerospace engineers are experts in aerodynamics, so some of them put their skills to use in making race cars go faster or golf balls fly further.

Mechanical, Civil & Aeronautical Engineering (AST2)

The following is a degree program designed by a consortium of two-year and four-year colleges in Washington. Students should be aware that baccalaureate institutions may have slightly different requirements for these degrees, and students should consult the transfer institution for exact questions.

Students should complete the entirety of any science sequence at the same school for best transferability. These degrees are not DTA degrees, and there are some general education requirements that students will need to finish upon transfer.

Though this degree does not require such, Clark College students should know that the standard Clark AST degree path has this difference from the Articulated Degree defined below:

• Clark requires 3 credits of Health-Physical Education coursework.

Students must also meet the residency requirements as established by Clark. While Clark College has approved offering the degree below, Clark students should keep these requirements in mind should their transfer pathways change.

Students completing this Associate of Science will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the direct transfer associate degree and will be given junior status by the receiving institution.

It is critical that you work with an Engineering faculty advisor to ensure your program will give you the maximum benefit when you transfer.

For more information, please visit the Major Related Programs/Articulated Degrees section of this catalog for more information.

Generic Requirements

A. Basic Requirements

1. Communication Skills 5 cr.

2. Mathematics 10 cr.

Two courses at or above introductory calculus level. Third-quarter calculus or approved statistics course: 5 quarter credits chosen with the help of an Engineering faculty advisor based on the requirements of the specific discipline at the baccalaureate institution the student plans to attend.

3. Physics 15 cr.

Calculus-based or non-calculus based sequence including laboratory. Students should be advised that some baccalaureate programs require physics with calculus.

4. Chemistry with Laboratory 5 cr.

B. Distribution Requirements

1. Humanities/Fine Arts/English & Social Sciences 15 cr.

C. Electives

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1. Elective Courses

The remaining quarter credits should be planned with the help of an Engineering faculty advisor based on the requirements of the specific discipline at the baccalaureate institution the student selects to attend.

For Engineering disciplines, these credits should include a design component consistent with ABET accreditation standards, as approved by the Engineering faculty advisor.

Articulated Degree Requirements

A. Basic Requirements

1. English Composition 5 cr.

2. Mathematics

Calculus I, II, III - 15 credits

Differential Equations - 5 credits

Linear Algebra - 5 credits

3. Physics

Engineering Physics 1, 2, 3 + labs - 15 to 18 credits

4. Chemistry with Laboratory

General Chemistry 1, 2 + labs - 5 credits

5. Required Major Courses

- Statics 5 credits
- Mechanics of Materials 5 credits
- Dynamics 5 credits

B. Distribution Requirements

1. Humanities/Fine Arts/English & Social Sciences

15 cr.

Minimum 15 quarter credits:

Minimum 5 credits in Humanities, minimum 5 credits in Social Science, plus an additional 5 credits in either Humanities or Social Science for a total of 15 credits.

C. Electives

1. Math/Engr Electives

15 cr.

Select 4 Electives (15-20 credits) as appropriate for intended major and intended baccalaureate institution. Requirements vary by school and program. See an Engineering faculty advisor for proper selection.

- Computer Programming 4-5 credits
- Innovation in Design
- Calculus IV (Advanced or Multi-Variable Calculus)
- 3-D Visualization and CAD (Engineering Graphics)
- Technical Writing
- Thermodynamics
- Electrical Circuits
- Materials Science
- Applied Numerical Methods

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Clark College Equivalents

A. Basic Requirements

1. Communication Skills

1. Communication 3	OKIIIS	
ENGL& 101	ENGLISH COMPOSITION I	5 cr.
2. Mathematics		
MATH& 151	CALCULUS I	5 cr.
MATH& 152	CALCULUS II	5 cr.
MATH& 153	CALCULUS III	5 cr.
MATH 215	LINEAR ALGEBRA	5 cr.
MATH 221	DIFFERENTIAL EQUATIONS	5 cr.
3. Physics		
PHYS& 221	ENGINEERING PHYSICS	5 cr.
PHYS& 222	ENGINEERING PHYSICS	5 cr.
PHYS& 223	ENGINEERING PHYSICS	5 cr.
4. Chemistry with La	aboratory	
CHEM& 141	GENERAL CHEMISTRY I	4 cr.
and CHEM& 151	GENERAL CHEMISTRY LABORATORY I	1 cr.
CHEM& 142	GENERAL CHEMISTRY II	4 cr.
and CHEM& 152	GENERAL CHEMISTRY LABORATORY II	1 cr.
5. Required Major C	ourses	
ENGR& 214	STATICS	5 cr.
ENGR& 215	DYNAMICS	5 cr.
ENGR& 225	MECHANICS OF MATERIALS	5 cr.
B. Distribution Requ	uirements	
1. Humanities/Fine	Arts/English & Social Sciences	
A course in Econom	nics is recommended (ECON& 201 or 202).	
PHIL& 106 is strongl	ly recommended as the Humanities course.	
C. Electives		
1. Elective Courses	Required at Clark:	
MATH& 254	CALCULUS IV	5 cr.

Notes

A. Basic Requirements

2. Mathematics

Clark requires concurrent enrollment of completion in MATH& 254 when taking MATH 221.

MATH 103 and MATH 111 are required prerequisites for MATH& 151 that may be needed if calculus placement is not met via COMPASS.

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3 Physics

Clark requires concurrent enrollment in PHYS 094, 095, and 096.

B. Distribution Requirements

1. Humanities

Courses taken must come from the current ICRC distribution list in order to count as General Education or General University Requirements (GER's/GUR's) at the receiving institution. Additional general educational requirements, cultural diversity requirements, and foreign language requirements, as required by the receiving institution, must be met prior to the completion of a baccalaureate degree.

Total Required Credits: 102-110

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Mechatronics

Mechatronics technology is a complex interdisciplinary field that combines the study of mechanics, electronics, automation and computers. Clark College's Mechatronics program proposal is designed with two certificate tracks, both of which lead to a corresponding AAT degree. Each of the certificate and degree tracks provides multiple stop out and entry points to accommodate various workforce demands.

Mechatronics-Mechanical Automation (AAT)

General Education Requirements

Communication Skills (5 credits required)			
Human Relations ((5 credits required)		
Fault-Assisted	d Circuits for Electronics Training (FACET) Core		
ELEC 101	DC FUNDAMENTALS	6 cr.	
ELEC 102	AC FUNDAMENTALS	6 cr.	
ELEC 121	SEMICONDUCTORS I	6 cr.	
-			
Major Area Re	equirements		
MTX 103	BASIC MEASUREMENT TOOLS	2 cr.	
MTX 105	BASIC HYDRAULICS	2 cr.	
MTX 107	BASIC PNEUMATICS	2 cr.	
MTX 110	ELECTRIC MOTOR CONTROL 1	4 cr.	
MTX 113	ELECTRICAL POWER DISTRIBUTION	2 cr.	
MTX 117	MECHATRONICS 1	2 cr.	
MTX 120	MECHANIC DRIVES 1	3 cr.	
MTX 127	PIPING	2 cr.	
MTX 130	PROGRAMMABLE LOGIC CONTROLLERS 1	4 cr.	
MTX 150	MECHANICAL DRIVES 2	2 cr.	
MTX 153	DC DRIVES	4 cr.	
MTX 155	AC DRIVES	4 cr.	
MTX 215	MECHATRONICS 2	3 cr.	
MTX 217	MECHATRONICS 3	5 cr.	

MTX 220	WORKPLACE ORGANIZATION AND PRACTICES	2 cr.
MTX 223	WORK TEAMS AND PRODUCT DESIGN	3 cr.
MTX 227	MECHANICAL DRIVES 3	4 cr.
MTX 230	LASER ALIGNMENT	2 cr.
MTX 250	ADVANCED PROGRAMMABLE LOGIC CONTROLLERS	4 cr.
MTX 255	ADVANCED HYDRAULICS	3 cr.
MTX 260	ADVANCED PNEUMATICS AND VACUUM	6 cr.
MTX 270	CAPSTONE	3 cr.
MTX 285	PROJECT MANAGEMENT AND LEAN MANUFACTURING	2 cr.
MTX 295	ORGANIZATIONAL ENTREPRENEURSHIP	3 cr.
	Total Require	d Credits: 100

Mechatronics-Mechanical Automation (CP)

General	Education	Requiren	nents
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Communication Skills (3 credits required)

Computational Skills (3 credits required)

Human Relations (3 credits required)

Fault-Assisted Circuits for Electronics Training (FACET) Core

ELEC 101	DC FUNDAMENTALS	6 cr.
ELEC 102	AC FUNDAMENTALS	6 cr.
ELEC 121	SEMICONDUCTORS I	6 cr.

Major Area Requirements

	•	
MTX 103	BASIC MEASUREMENT TOOLS	2 cr.
MTX 105	BASIC HYDRAULICS	2 cr.
MTX 107	BASIC PNEUMATICS	2 cr.
MTX 110	ELECTRIC MOTOR CONTROL 1	4 cr.
MTX 113	ELECTRICAL POWER DISTRIBUTION	2 cr.
MTX 117	MECHATRONICS 1	2 cr.
MTX 120	MECHANIC DRIVES 1	3 cr.
MTX 127	PIPING	2 cr.
MTX 130	PROGRAMMABLE LOGIC CONTROLLERS 1	4 cr.
MTX 150	MECHANICAL DRIVES 2	2 cr.
MTX 153	DC DRIVES	4 cr.
MTX 155	AC DRIVES	4 cr.
MTX 215	MECHATRONICS 2	3 cr.
MTX 217	MECHATRONICS 3	5 cr.
MTX 220	WORKPLACE ORGANIZATION AND PRACTICES	2 cr.

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MTX 223	WORK TEAMS AND PRODUCT DESIGN	3 cr.
MTX 227	MECHANICAL DRIVES 3	4 cr.
MTX 230	LASER ALIGNMENT	2 cr.
MTX 250	ADVANCED PROGRAMMABLE LOGIC CONTROLLERS	4 cr.
MTX 255	ADVANCED HYDRAULICS	3 cr.
MTX 260	ADVANCED PNEUMATICS AND VACUUM	6 cr.
MTX 270	CAPSTONE	3 cr.
MTX 285	PROJECT MANAGEMENT AND LEAN MANUFACTURING	2 cr.
MTX 295	ORGANIZATIONAL ENTREPRENEURSHIP	3 cr.
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Mechatronics-Instrumentation & Control Automation (AAT)

General Education Requirements

Communication Skills (5 credits required)

Computational Skills (5 credits required)

Human Relations (5 credits required)

Fault-Assisted Circuits for Electronics Training (FACET) Core

ELEC 101	DC FUNDAMENTALS	6 cr.
ELEC 102	AC FUNDAMENTALS	6 cr.
ELEC 121	SEMICONDUCTORS I	6 cr.

Major Area Requirements

MTX 103	BASIC MEASUREMENT TOOLS	2 cr.
MTX 105	BASIC HYDRAULICS	2 cr.
MTX 107	BASIC PNEUMATICS	2 cr.
MTX 110	ELECTRIC MOTOR CONTROL 1	4 cr.
MTX 113	ELECTRICAL POWER DISTRIBUTION	2 cr.
MTX 117	MECHATRONICS 1	2 cr.
MTX 123	PICK AND PLACE ROBOT	2 cr.
MTX 125	SERVO ROBOT	3 cr.
MTX 130	PROGRAMMABLE LOGIC CONTROLLERS 1	4 cr.
MTX 135	INDUSTRIAL ELECTRICAL WIRING	3 cr.
MTX 165	ELECTRIC MOTOR CONTROL 2	4 cr.
MTX 205	FLOW PROCESS CONTROL	5 cr.
MTX 207	THERMAL PROCESS CONTROL	5 cr.
MTX 210	ELECTRO-FLUID POWER	4 cr.
MTX 215	MECHATRONICS 2	3 cr.
MTX 217	MECHATRONICS 3	5 cr.

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MTX 220	WORKPLACE ORGANIZATION AND PRACTICES	2 cr.
MTX 223	WORK TEAMS AND PRODUCT DESIGN	3 cr.
MTX 225	SPEED CONTROL SYSTEMS	2 cr.
MTX 250	ADVANCED PROGRAMMABLE LOGIC CONTROLLERS	4 cr.
MTX 270	CAPSTONE	3 cr.
MTX 285	PROJECT MANAGEMENT AND LEAN MANUFACTURING	2 cr.
MTX 295	ORGANIZATIONAL ENTREPRENEURSHIP	3 cr.

Mechatronics-Instrumentation & Control Automation (CP)

General Education Requirements

Communication Skills (3 credits required)

Computational Skills (3 credits required)

Human Relations (3 credits required)

Fault-Assisted Circuits for Electronics Training (FACET) Core

ELEC 101	DC FUNDAMENTALS	6 cr.
ELEC 102	AC FUNDAMENTALS	6 cr.
ELEC 121	SEMICONDUCTORS I	6 cr.

Major Area Requirements

MTX 103	BASIC MEASUREMENT TOOLS	2 cr.
MTX 105	BASIC HYDRAULICS	2 cr.
MTX 107	BASIC PNEUMATICS	2 cr.
MTX 110	ELECTRIC MOTOR CONTROL 1	4 cr.
MTX 113	ELECTRICAL POWER DISTRIBUTION	2 cr.
MTX 117	MECHATRONICS 1	2 cr.
MTX 123	PICK AND PLACE ROBOT	2 cr.
MTX 125	SERVO ROBOT	3 cr.
MTX 130	PROGRAMMABLE LOGIC CONTROLLERS 1	4 cr.
MTX 135	INDUSTRIAL ELECTRICAL WIRING	3 cr.
MTX 165	ELECTRIC MOTOR CONTROL 2	4 cr.
MTX 205	FLOW PROCESS CONTROL	5 cr.
MTX 207	THERMAL PROCESS CONTROL	5 cr.
MTX 210	ELECTRO-FLUID POWER	4 cr.
MTX 215	MECHATRONICS 2	3 cr.
MTX 217	MECHATRONICS 3	5 cr.
MTX 220	WORKPLACE ORGANIZATION AND PRACTICES	2 cr.
MTX 223	WORK TEAMS AND PRODUCT DESIGN	3 cr.

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MTX 225	SPEED CONTROL SYSTEMS	2 cr.
MTX 250	ADVANCED PROGRAMMABLE LOGIC CONTROLLERS	4 cr.
MTX 270	CAPSTONE	3 cr.
MTX 285	PROJECT MANAGEMENT AND LEAN MANUFACTURING	2 cr.
MTX 295	ORGANIZATIONAL ENTREPRENEURSHIP	3 cr.

Medical Radiography

Designed to fulfill the educational objectives established by the American Society of Radiologic Technologists and the competencies outlined by the American Registry of Radiologic Technologists, students graduating from this program receive an Associate of Applied Science degree in Medical Radiography and are employed in hospitals, clinics, doctors' offices, and outpatient medical centers. Successful completion of the registry examination results in national certification as a Registered Radiologic Technologist, RT (R) ARRT.

Upon program completion, and having passed the national boards administered by the American Registry of Radiologic Technologists (ARRT), students may choose to practice as entry-level technologists or continue their education to specialize in CT, MRI, ultrasound, and therapeutic radiation techniques or prepare for administration or teaching.

Application Guidelines

Applicants must be graduates of an accredited high school (or the equivalent). Students can apply to the Medical Radiography program any time; however, they will not be eligible for selection until all Preliminary Requirements are complete.

Candidates must:

- Complete the Clark College Application for Admission and Statement of Intent forms. Return to
 the Clark College Welcome Center with the non-refundable program application fees (subject to
 change). For the current fee amounts, please visit the Medical Radiography website at www.clark.edu/
 medicalradiography.
- Submit official college transcripts from ALL colleges attended (an evaluation of transfer credits will not be completed until all transcripts are received).
- Earn a COMPASS Reading exam score of 74 or higher or completion of READ 087 or equivalent with a 2.0 grade or higher.
- Earn a 2.0 grade or higher on all required courses.
- Complete program Preliminary Requirements with a GPA of 2.75 or higher for all non-science courses and a science GPA of 2.0 or higher for BIOL& 251, 252 & 253.
- BIOL& 251-Human A & P I (with lab)
- BIOL& 252-Human A & P II (with lab)
- BIOL& 253-Human A & P III (with lab)
- BMED 110-Medical Terminology I
- BMED 111-Medical Terminology II
- ENGL& 101-English Composition I
- MATH 093-Algebra III or MATH 095-Intermediate Algebra

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• MRAD 101-Fundamentals of Medical Radiography

Final Program Admission

In preparing for entrance into the program, accepted students need to be aware of the following:

- The program requires a 40-hour per week commitment from students for classes and clinical rotations.
- Clinical facilities may require driving significant distances (with travel time up to 2.5 to 3 hours one way), so reliable transportation is an important consideration.
- Classes and/or clinicals may be offered at times other than weekday hours such as evenings and/or weekends.

Upon completion of preliminary requirements, an evaluation will be completed, and the applicant will be notified by the Credential Evaluations Office of additional procedures necessary for program consideration.

Final admission to the Medical Radiography program is based on competitive entry for a limited number of positions. Students are ranked by:

- Applicable GPA (for all required courses)
- Number of required courses completed
- Science GPA
- Washington Residency

All accepted Medical Radiography students will be required to attend an orientation session to secure their place in the class. Selected students will be sent information regarding the date, place, and time of the orientation. They will also need to submit a non-refundable \$200 deposit to reserve a position in the program. Accepted students must complete the following prior to starting the clinical portion of the program:

• Immunizations/Physical Exam

- Accepted students will be directed to make an appointment with a nurse practitioner in the
 Clark College Health Services Office to have their immunization records reviewed. Be aware that
 proof of the following immunizations will be required: PPD (Tuberculosis Skin Testing), MMR
 (Measles, Mumps, Rubella) (2 doses), Tetanus/ Diphtheria, Varicella (Chicken Pox), and Hepatitis
 B series with titer showing immunization. All accepted students must show completion of two of
 the three required Hepatitis B injections prior to entering clinical sites. Applicants are strongly
 encouraged to begin the series six months prior to anticipated entry into the program.
- Accepted students must obtain a physical exam and submit an exam form signed by an appropriate healthcare provider. The exam must be six months current upon program entry.
- Information regarding required immunizations and the physical exam process will be discussed in the mandatory orientation to the program.

• Drug Screen

Students may be drug tested, at their own expense, if requested by their clinical sites. The drug screens will be random, and details regarding the process will be provided during orientation.

• Health Insurance

Proof of health insurance is highly recommended prior to entrance into Medical Radiography. Students can obtain health insurance through Clark College by contacting the Health Services Office, 360-992-2264. The cost is \$39 per quarter for injuries or \$118 per quarter for injuries and illness. Students are responsible for their own health and testing requirements should an accident or injury occur.

• Criminal Background Check

Students are required to complete WSP and FBI criminal background checks prior to entry into the program. Details regarding this process will be provided during orientation.

Refer to the Clark College website for program entry requirements, program selection, deadlines, and application guidelines at www.clark.edu/medicalradiography.

Refer to the Degree & Certificate Requirements Section of the Clark College Catalog to identify the courses needed to satisfy the General Education Requirements.

Disability Statement for Health Occupations

In accordance with the Americans with Disabilities Act and the Rehabilitation Act of 1973, accommodations for students with disabilities will be considered at the student's request. The student may need to provide documentation of disability to the Disability Support Services Office to support his/her accommodation requests. Documentation guidelines and procedures can be found at www.clark.edu/dss. Once the student is qualified by DSS as having a disability, requested accommodations will be considered. Accommodations for the classroom, laboratory, or clinical setting will be evaluated according to reasonableness. Accommodations that compromise patient care, or that fundamentally alter the essential functions of the program or activity, are not considered to be reasonable.

Medical Radiography (AAS)

Preliminary Requirements

HUMAN A & P I *, **	4 cr.
HUMAN A & P II *, **	4 cr.
HUMAN A & P III *, **	4 cr.
MEDICAL TERMINOLOGY I	3 cr.
MEDICAL TERMINOLOGY II	3 cr.
ENGLISH COMPOSITION I *	5 cr.
ALGEBRA III *, **	5 cr.
INTERMEDIATE ALGEBRA *, **	5 cr.
INTRODUCTION TO RADIOLOGIC TECHNOLOGY	3 cr.
	HUMAN A & P III *, ** HUMAN A & P III *, ** MEDICAL TERMINOLOGY I MEDICAL TERMINOLOGY II ENGLISH COMPOSITION I * ALGEBRA III *, ** INTERMEDIATE ALGEBRA *, ** INTRODUCTION TO RADIOLOGIC TECHNOLOGY

Additional Requirement

2 cr.

General Education Requirements

Communication Skills (6 credits required)

ENGL 109	WRITING ABOUT THE SCIENCES	5 cr.
or ENGL& 102	ENGLISH COMPOSITION II	5 cr.

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PE Activity (1 credit required)

Health course waived

Communication Skills (3 credits required)

(must be 7 years current upon program entry)

Human Relations (3 credits required) (if not CMST& 210 or 230) Humanities (3 credits required) **HUM 180** BIOETHICS (strongly recommended) 3 cr. Social Sciences (3 credits required) **PSYC& 100 GENERAL PSYCHOLOGY** 5 cr. or PSYC& 200 LIFESPAN PSYCHOLOGY 5 cr. Natural Sciences (3 credits required) (must be 7 years current upon program entry) First Year Major Area Requirements **First Quarter** MRAD 011 RADIOGRAPHIC SKILL ENHANCEMENT LAB I 1 cr. MRAD 102 5 cr. INTRODUCTION TO PATIENT CARE (with lab) MRAD 103 **IMAGE PROCESSING** 1 cr. MRAD 104 RADIATION SAFETY AND RADIOBIOLOGY 2 cr. MRAD 141 RADIOGRAPHIC POSITIONING I (with lab) 5 cr. **Second Quarter** MRAD 011 RADIOGRAPHIC SKILL ENHANCEMENT LAB I 1 cr. MRAD 108 **RADIATION PHYSICS I** 3 cr. MRAD 121 CLINICAL EXPERIENCE I 5 cr. MRAD 142 RADIOGRAPHIC POSITIONING II (with lab) 5 cr. MRAD 151 IMAGE EVALUATION I 2 cr. **Third Quarter** MRAD 011 RADIOGRAPHIC SKILL ENHANCEMENT LAB I 1 cr. MRAD 109 RADIATION PHYSICS II 4 cr. MRAD 122 CLINICAL EXPERIENCE II 8 cr. MRAD 143 RADIOGRAPHIC POSITIONING III 5 cr. MRAD 152 IMAGE EVALUATION II 1 cr. **Fourth Quarter** MRAD 012 1-5 cr. RADIOGRAPHIC SKILL ENHANCEMENT LAB II * MRAD 123 CLINICAL EXPERIENCE III 8 cr. MRAD 153 IMAGE EVALUATION III 1 cr. MRAD 214 PHARMACOLOGY AND IV THERAPY (with lab) 3 cr. MRAD 244 RADIOGRAPHIC POSITIONING IV (with lab) 3 cr.

Second Year Major Area Requirements

Fifth Quarter

MRAD 012	RADIOGRAPHIC SKILL ENHANCEMENT LAB II ***	1-5 cr.
MRAD 154	IMAGE EVALUATION IV	1 cr.
MRAD 216	RADIOGRAPHIC PATHOLOGY	3 cr.
MRAD 224	CLINICAL EXPERIENCE IV	8 cr.
MRAD 245	RADIOGRAPHIC POSITIONING V (with lab)	3 cr.
Sixth Quarter		
MRAD 225	CLINICAL EXPERIENCE V	8 cr.
MRAD 251	RADIOGRAPHIC INFORMATION MANAGEMENT	2 cr.
MRAD 253	RADIOBIOLOGY	2 cr.
MRAD 270	LEADERSHIP AND MANAGEMENT	1 cr.
Seventh Quarter		
MRAD 226	CLINICAL EXPERIENCE VI	12 cr.
MRAD 255	ADVANCED MODALITIES	1 cr.
MRAD 279	CROSS SECTIONAL ANATOMY FOR IMAGING PROFESSIONAL	3 cr.
Eighth Quarter		
MRAD 227	CLINICAL EXPERIENCE VII	12 cr.
MRAD 275	MEDICAL RADIOGRAPHY REVIEW	2 cr.

Computed Tomography (CERT)

Clark College offers a certificate program that provides an opportunity for registered Radiologic Technologists to gain knowledge, skills, and competency required to perform Computed Tomography (CT) examinations. The curriculum includes online, hybrid courses and a clinical practicum. The classes will prepare students to take the ARRT advanced certification examination in Computed Tomography.

Major Area Requirements

DIMAG250	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3 cr.
DIMAG271	COMPUTED TOMOGRAPHY CLINICAL PRACTICUM	4 cr.
DIMAG275	COMPUTED TOMOGRAPHY PHYSICS AND INSTRUMENTATION	3 cr.
DIMAG279	CROSS SECTIONAL ANATOMY FOR IMAGING PROFESSIONAL	3 cr.
DIMAG296	COMPUTED TOMOGRAPHY REGISTRY REVIEW	1 cr.

Total Required Credits: 14

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Program Progression - Once accepted into the Medical Radiography program all students must achieve a GPA of 2.0 or higher in all required courses and maintain a cumulative GPA of 2.0 or higher to progress from one quarter to the next.

Music (Transfer)

The Music program at Clark College offers a two-year college experience of music theory, instrumental and vocal

^{*}Course will satisfy General Education Requirement.

^{**}Must be seven years current upon program entry.

^{***} Enroll in MRAD 012 for 1 credit both during the fourth and fifth quarter.

performance training, music appreciation, and music history classes. Classes are designed to prepare the music major for advanced studies at a four-year institution while providing the non-major with the skills and background to fully enjoy music as a cultural pursuit.

Career opportunities for those with musical interests and talent are available in a number of areas: music education, music marketing, theory and history, composition, and vocal or instrumental performance. Students with professional goals should consult with a faculty advisor to plan a program leading to an Associate in Arts degree.

Musical Opportunities

Instrumentalists and vocal musicians have the opportunity to fine tune their talents while developing a professional stage presence by performing in their choice of quality college groups:

Orchestra Symphonic Band Jazz Band Women's Choir

Concert Choir Brass & Wind Ensembles

Vocal Jazz Ensemble Pep Band

Performing groups present concerts each quarter, at various locations on and off campus, often with musical groups from other schools or from the community. Performing ensembles have toured in Canada, Mexico, Japan, Korea, China, and Hawaii.

Each January, Clark music students also experience first-hand the many activities involved in producing a major musical event as the college hosts the annual Clark College Jazz Festival. More than 80 high school bands and vocal jazz choirs from throughout the Northwest and Canada come to the campus to compete in this nationally recognized event. Clark jazz musicians perform during the three-day event, and all participants have the opportunity to interact with the professional musicians and educators who come to Vancouver as guest performers and adjudicators for the festival.

Network Technology

Designed to meet the ever-changing needs of the IT (Information Technology) field, Clark's Network Technology programs include extensive hands-on, real-world scenario-based learning in planning, designing, implementing, maintaining, and troubleshooting small-to-large scale computer networks.

The Network Technology department provides in-demand training for careers as a Network Administrator, Network Engineer, and Network Support Specialist in all aspects of modern computer networks, including traditional data, video conference, Voice over Internet Protocol (VoIP) telephone, wireless networks, and network security.

We are a Cisco Network Academy authorized by Cisco Systems, a leader in the networking industry. The Network Technology department offers training towards obtaining several well-recognized industry certifications, including:

- Cisco CCNA
- Cisco Firewall Specialist (part of the Cisco CCSP certification)
- A+ (CompTIA certified PC technician)
- Network+ (CompTIA certified PC network support)
- Security+ (CompTIA certified network security)
- CTP (TIA certified Convergent Technologies Professional)

Our various Network Technology programs are designed with entry points both for the student just starting a new career, as well as for the computer networking or telecommunications professional seeking to improve and update their skills and achieve industry certifications. Classes are offered at convenient times for working people: days, nights, weekends.

We invite you to visit our website for more information, contact us with your questions, and schedule a tour of our classroom and leading-edge lab facility.

Website: www.clark.edu/dnet

Email: dnet@clark.edu

Program Preparation

Math and English proficiency tests are required of all students before entry into the applied science degree program.

Students must complete all Major Area Requirements with a minimum grade of "C" or better in order to successfully complete the program and earn the award.

Refer to the Degree & Certificate Requirements Section of the Clark College Catalog to identify the courses needed to satisfy the General Education Requirements.

CISCO Network Technician (CA)

Major Area Requirements

DNET 211	TELECOM 1: BASIC TELECOMMUNICATIONS	6 cr.
DNET 220	INTRO TO NETWORK SERVERS: WINDOWS AND LINUX	6 cr.
DNET 221	CISCO CCNA 1: NETWORK FUNDAMENTALS	6 cr.
DNET 222	CISCO CCNA 2: ROUTING PROTOCOLS AND CONCEPTS	6 cr.
DNET 223	CISCO CCNA 3: LAN SWITCHING AND WIRELESS	6 cr.
DNET 224	CISCO CCNA 4: ACCESSING THE WAN	6 cr.

Total Required Credits: 36

Note: Students will be required to have access to the Internet to complete their coursework.

CISCO Network Technologies (AAT)

General Education Requirements

Communication Skills (5 credits required)

ENGL& 101	ENGLISH COMPOSITION I	5 cr.
or ENGL 135	INTRODUCTION TO TECHNICAL WRITING	5 cr.
Computational S	kills (5 credits required)	
MATH& 107	MATH IN SOCIETY	5 cr.
or MATH 111	COLLEGE ALGEBRA	5 cr.
Human Relations	s (5 credits required)	
MGMT 100	THE BUSINESS ENVIRONMENT	5 cr.
Major Area F	Requirements	
BTEC 149	COMPUTER APPLICATIONS ESSENTIALS	3 cr.
DNET 211	TELECOM 1: BASIC TELECOMMUNICATIONS	6 cr.

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6 cr.

DNET 221	CISCO CCNA 1: NETWORK FUNDAMENTALS	6 cr.
DNET 222	CISCO CCNA 2: ROUTING PROTOCOLS AND CONCEPTS	6 cr.
DNET 223	CISCO CCNA 3: LAN SWITCHING AND WIRELESS	6 cr.
DNET 224	CISCO CCNA 4: ACCESSING THE WAN	6 cr.
DNET 299	CAPSTONE EXPERIENCE	3 cr.
Program Spe	ecialty Area Requirements	
Students must co	omplete a minimum of 30 credits in specialty areas. e following list:	
CTEC 121	INTRO TO PROGRAMMING & PROBLEM SOLVING	5 cr.
CTEC 122	HTML FUNDAMENTALS	3 cr.
CTEC 140	INTRODUCTION TO UNIX	5 cr.
CTEC 141	UNIX SYSTEM ADMINISTRATION	5 cr.
CTEC 210	A+ ESSENTIALS	6 cr.
CTEC 230	INTRODUCTION TO NETWORK SECURITY	5 cr.
DNET 199	COOPERATIVE WORK EXPERIENCE	1-6 cr.
DNET 225	CISCO CCNA SECURITY	6 cr.
DNET 226	VOICE OVER IP	6 cr.
DNET 233	SERVER HARDWARE/SOFTWARE: SERVER+	6 cr.
DNET 234	MICROSOFT ACTIVE DIRECTORY	6 cr.
DNET 235	MICROSOFT NETWORK INFRASTRUCTURE	6 cr.
DNET 236	MICROSOFT SERVER ADMINISTRATOR	6 cr.
DNET 242	DATACENTER VIRTUALIZATION TECHNOLOGY	6 cr.
	Total Required C	redits: 129-134
Microsoft I	Network Technologies (AAT)	
	cation Requirements	
	Skills (5 credits required)	F. 611
ENGL& 101	ENGLISH COMPOSITION I	5 cr.
or ENGL 135	INTRODUCTION TO TECHNICAL WRITING	5 cr.
-	Skills (5 credits required)	F
MATH& 107	MATH IN SOCIETY	5 cr.
or MATH 111	COLLEGE ALGEBRA	5 cr.
	s (5 credits required)	_
MGMT 100	THE BUSINESS ENVIRONMENT	5 cr.
Major Area F	Requirements	
BTEC 149	COMPUTER APPLICATIONS ESSENTIALS	3 cr.
DNFT 220	INTRO TO NETWORK SERVERS: WINDOWS AND LINITY	6 cr

CISCO CCNA 1: NETWORK FUNDAMENTALS

6 cr.

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DNET 221

DNET 233	SERVER HARDWARE/SOFTWARE: SERVER+	6 cr.
DNET 234	MICROSOFT ACTIVE DIRECTORY	6 cr.
DNET 235	MICROSOFT NETWORK INFRASTRUCTURE	6 cr.
DNET 236	MICROSOFT SERVER ADMINISTRATOR	6 cr.
DNET 299	CAPSTONE EXPERIENCE	3 cr.
Program Specia	alty Area Requirements	
CTEC 121	INTRO TO PROGRAMMING & PROBLEM SOLVING	5 cr.
CTEC 122	HTML FUNDAMENTALS	3 cr.
CTEC 140	INTRODUCTION TO UNIX	5 cr.
CTEC 141	UNIX SYSTEM ADMINISTRATION	5 cr.
CTEC 180	INTRODUCTION TO ACCESS	3 cr.
CTEC 210	A+ ESSENTIALS	6 cr.
CTEC 230	INTRODUCTION TO NETWORK SECURITY	5 cr.
DNET 199	COOPERATIVE WORK EXPERIENCE	1-6 cr.
DNET 222	CISCO CCNA 2: ROUTING PROTOCOLS AND CONCEPTS	6 cr.
DNET 223	CISCO CCNA 3: LAN SWITCHING AND WIRELESS	6 cr.
DNET 224	CISCO CCNA 4: ACCESSING THE WAN	6 cr.
DNET 225	CISCO CCNA SECURITY	6 cr.
DNET 226	VOICE OVER IP	6 cr.
DNET 242	DATACENTER VIRTUALIZATION TECHNOLOGY	6 cr.

Microsoft Network Technician (CA)

This program is designed for students who want to work as systems administrators with local area network systems. Network administrators install workstation and server software; set up user accounts and restrictions; install, define, and maintain system resources such as file systems and printers; maintain network operations; perform backup and recovery procedures; and perform troubleshooting.

Major Area Requirements

DNET 220	INTRO TO NETWORK SERVERS: WINDOWS AND LINUX	6 cr.
DNET 221	CISCO CCNA 1: NETWORK FUNDAMENTALS	6 cr.
DNET 233	SERVER HARDWARE/SOFTWARE: SERVER+	6 cr.
DNET 234	MICROSOFT ACTIVE DIRECTORY	6 cr.
DNET 235	MICROSOFT NETWORK INFRASTRUCTURE	6 cr.
DNET 236	MICROSOFT SERVER ADMINISTRATOR	6 cr.

Total Required Credits: 36

Datacenter Technician (CA)

Major Area Requirements

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DNET 220	INTRO TO NETWORK SERVERS: WINDOWS AND LINUX	6 cr.
DNET 221	CISCO CCNA 1: NETWORK FUNDAMENTALS	6 cr.
DNET 222	CISCO CCNA 2: ROUTING PROTOCOLS AND CONCEPTS	6 cr.
DNET 223	CISCO CCNA 3: LAN SWITCHING AND WIRELESS	6 cr.
DNET 233	SERVER HARDWARE/SOFTWARE: SERVER+	6 cr.
DNET 242	DATACENTER VIRTUALIZATION TECHNOLOGY	6 cr.

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Nursing

The registered nurse is a licensed health care professional able to work in hospitals, clinics, acute care, physicians' offices, emergency centers, long-term care facilities, and home health care agencies. Registered nurses work with patients from birth through old age in a variety of health care settings, including medical/surgical, obstetrics, mental health, long-term care, and in the community. They design care plans, perform patient assessments, administer medications, give injections, serve as advocates for patients, and refer patients to the proper resources. Critical-thinking and decision-making ability, as well a life-long commitment to learning, are important assets in this demanding but rewarding profession.

Graduates of the Associate Degree Nursing program receive an Associate in Applied Science degree in Nursing, and are qualified to take the National Council Examination for licensure as a Registered Nurse. With additional credits, an Associate of Arts degree may be granted. (Students interested in transferring on to earn their Bachelor of Science in Nursing, please refer to the Clark College to WSU Vancouver Direct Transfer Agreement.)

Clark College's Associate Degree Nursing program is accredited by the National League for Nursing Accrediting Commission (NLNAC).

NLNAC

National League for Nursing Accrediting Commission 3343 Peachtree Rd NE, Suite 500 Atlanta, GA 30326 www.nlnac.org

Preliminary Requirements

To apply for the program, complete the Clark College Application for Admission and Statement of Intent forms. Return to the Clark College Welcome Center with the non-refundable program application fees (subject to change). For the current fee amounts, please visit the Nursing website at www.clark.edu/clarknursing.

Send all official college transcripts to the Credential Evaluations Office for complete transcript evaluation.

The following courses must be completed with a 3.0 applicable GPA (with at least a 2.0 in each program class) to qualify for selection to the Nursing program:

- CHEM& 121 Introduction to Chemistry (formerly CHEM 111)
- BIOL& 251L Human Anatomy & Physiology I, II, III
- BIOL& 252L (formerly BIOL 231, 232, 233)
- BIOL& 253L
- BIOL& 260 Microbiology (formerly BIOL 240)
- NUTR 103 Nutrition
- PSYC& 200 Lifespan Psychology (formerly PSYC 211)

- ENGL& 101 Composition 1 (formerly ENGL 101)
- ENGL& 102 Composition 2 (formerly ENGL 102) or ENGL 109, Writing About the Sciences (formerly ENGL 113)
- There is a seven-year (7) limit on all science/social science courses (numbered 1-7 above) at the time of program entry.
- The following courses must be completed with a 2.0 or higher grade point prior to graduation:
- Humanities Elective 3 credits
- PE Activity 1 credit

Final Program Admission

Upon completion of preliminary requirements, an evaluation will be completed and the applicant will be notified by the Credential Evaluations Office of additional procedures necessary for program consideration.

Acceptance into the Nursing Program is limited and competitive. It is based on the total points accumulated in the criteria previously outlined (see "Calculate Your Nursing Points" on the Clark College Nursing website).

Upon Acceptance

- Upon notification of acceptance, students must pay a non-refundable \$200 deposit within the deadline stated in the acceptance letter.
- Immediately notify the Clark College Nursing Program office at 360-992-6075 if for any reason your acceptance to the Clark College Nursing Program decision changes.

Mandatory Orientation

A mandatory orientation will be held for admitted students and invited alternate students. Attendance is required, or the next eligible alternate student will be given the assigned placement in the program. Students will be informed of the orientation date, time, and location.

Physical Exam and Proof of Immunizations

Accepted students and invited alternate students must submit proof of a physical exam and of the following immunizations by the stated deadline or their space will be given to the next eligible alternate.

You must provide evidence of:

- Tdap
- Chickenpox history or varicella immunization
- MMR immunizations or titer
- PPD (TB test) or QFT-G if positive PPD
- Hepatitis B immunizations (at least #2 in the three-part series before start) or titer

Criminal Background Check

All accepted students are required to complete and pass the FBI, Washington State Patrol/Oregon State Patrol (depending on state of residence) criminal background check process. The criminal background check requires a fee and the applicant's social security number.

Disability Statement for Health Occupations

In accordance with the Americans with Disabilities Act and the Rehabilitation Act of 1973, accommodations for students with disabilities will be considered at the student's request. The student may need to provide documenta-

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tion of disability to the Disability Support Services Office to support his/her accommodation requests. Documentation guidelines and procedures can be found at www.clark.edu/dss. Once the student is qualified by DSS as having a disability, requested accommodations will be considered. Accommodations for the classroom, laboratory, or clinical setting will be evaluated according to reasonableness. Accommodations that compromise patient care, or that fundamentally alter the essential functions of the program or activity, are not considered to be reasonable.

Nursing (AAS)

General Education Requirements

Communication Skills (6 credits required) **ENGL& 101 ENGLISH COMPOSITION I** 5 cr. ENGL& 102 **ENGLISH COMPOSITION II** 5 cr. Physical Education (1 credit required) Health course waived Computational Skills (3 credits required) **Human Relations (3 credits required)** Humanities (3 credits required) Social Sciences (3 credits required) PSYC& 200 LIFESPAN PSYCHOLOGY 5 cr. Natural Sciences (3 credits required) CHEM& 121 INTRO TO CHEMISTRY: PRE-HEALTH 5 cr. **Additional Program Prerequisites BIOL& 251** HUMAN A & P I 4 cr. **BIOL& 252** HUMAN A & P II 4 cr. **BIOL& 253 HUMAN A & P III** 4 cr. BIOL& 260 MICROBIOLOGY 5 cr. **NUTR 103 GENERAL NUTRITION** 3 cr. **Major Area Requirements NURS 110** FOUNDATIONS OF PROFESSIONAL NURSING 3 cr. **NURS 111** 4 cr. FOUNDATIONS OF NURSING PRACTICE **NURS 113** PROFESSIONAL NURSING SKILLS I 2 cr. **NURS 114** NURSING SKILLS PRACTICE I 1 cr. **NURS 115** NURSING COMPETENCIES AND SIMULATION 2 cr. **NURS 120** NURSING CONCEPTS I 2 cr. **NURS 121** NURSING CONCEPTS IN PRACTICE I 4 cr. **NURS 125** NURSING COMPETENCIES AND SIMULATION 2 cr. **NURS 126** PROFESSIONAL NURSING SKILLS II 1 cr. **NURS 127** NURSING SKILLS PRACTICE II 1 cr. **NURS 130** FAMILY-CENTERED NURSING 2 cr.

NURS 131	NURSING CARE OF THE EMERGING FAMILY	4 cr.
NURS 132	NURSING CARE OF THE CHILD	4 cr.
NURS 133	FAMILY CENTERED NURSING SKILLS	1 cr.
NURS 210	NURSING CONCEPTS II	3 cr.
NURS 211	NURSING CONCEPTS IN PRACTICE II	8 cr.
NURS 212	NURSING SKILLS PRACTICE III	1 cr.
NURS 220	NURSING CONCEPTS III	2 cr.
NURS 221	NURSING CONCEPTS IN PRACTICE III	4 cr.
NURS 222	MENTAL HEALTH CONCEPTS	2 cr.
NURS 223	MENTAL HEALTH IN PRACTICE	4 cr.
NURS 230	PROFESSIONAL LEADERSHIP	2 cr.
NURS 231	PROFESSIONAL LEADERSHIP IN PRACTICE	8 cr.
NURS 232	PROFESSIONAL ROLE IN THE COMMUNITY	1 cr.

Program Progression

In order to progress from one course or quarter to the next after beginning the Nursing program, student must achieve a grade of 2.0 or higher in all required courses and maintain a cumulative GPA of 2.0 or higher.

Nursing - WSU Vancouver Direct Transfer Agreement (AA)

Students who complete the Associate in Applied Science in Nursing at Clark College may choose to continue on to earn a Bachelor of Science in Nursing at Washington State University Vancouver. The following additional courses are required to meet graduation requirements for the Clark College/WSU Vancouver Direct Transfer Agreement.

Additional Coursework

Humanities (2 subject areas with an academic focus)* Oral Communication		5 cr.
		15 cr.
SOC& 101	INTRO TO SOCIOLOGY	5 cr.
PSYC& 100	GENERAL PSYCHOLOGY	5 cr.
or BUS 204	INFERENTIAL STATISTICS	3 cr.
MATH 204	INFERENTIAL STATISTICS	3 cr.
or BUS 203	DESCRIPTIVE STATISTICS	3 cr.
MATH 203	DESCRIPTIVE STATISTICS	3 cr.

Total Required Credits: 31

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General Information

Selection criteria are subject to change. For complete updated information, please refer to the application, available online at www.clark.edu/clarknursing, or by calling the Admissions Office at 360-992-2105.

Nursing Assistant Certified (NAC) (I-BEST) (CERT)

^{*} See the Humanities section of the Associate of Arts Degree Requirements in section B of this catalog for a list of qualifying courses.

I-BEST pairs English as a Second Language (ESL) and/or Adult Basic Education (ABE) instructors with career and technical education instructors in the classroom to concurrently provide students with literacy education and workforce skills. I-BEST challenges the traditional notion that students must first complete all levels of basic education before they can begin workforce training.

The I-BEST Nursing Assistant Certificate is specifically designed for students who test below college level in reading or math. This program requires CASAS testing and requires a multi-step process before students can enroll.

I-BEST NAC classes run approximately 10 weeks (8 weeks in the summer) and are on a Monday-through-Friday daytime schedule.

Major Area Requirements

		Total Required Credits: 10
FACPR032	FIRST AID AND HEALTH CARE PROVIDER CPR	1 cr.
NAC 103	NURSING ASSISTANT FOUNDATIONS/CLINICAL	9 Cr.

Note: ABE/GED 071 is required of all I-BEST NAC students. It provides extra support for students who have tested below college level in reading or math.

Nursing Assistant Certified (NAC) (CA)

The Nursing Assistant Certificate program provides instruction in basic nursing skills, including CPR and First Aid for the Healthcare Provider, HIV/AIDS, and clinical training in a long-term facility. After successful completion of the Nursing Assistant Program, students are eligible to sit for the State of Washington Nursing Assistant examination for State certification. Students receiving their certification will be eligible to apply for employment in hospitals, clinics, long-term care facilities, and home or community health agencies.

Participation Requirements

- 18 years of age or older
- High school diploma or GED is recommended, but not required
- Proof of 2-step TB test or clear chest x-ray within 6 months upon acceptance into the program.
- Clear criminal background check
- Upon successful selection, attendance at mandatory Nursing Assistant Orientation

NAC - For Credit Requirements

- All applicants must submit the following three (3) items to the Clark College Welcome Center,
 PUB 002, by the stated deadline on the Statement of Intent form in order to be considered for the quarter's NAC class.
- Application for Admission to (if not already a student at) Clark College
- Statement of Intent form
- Criminal Background Check

Classes are held at the Clark Center at Washington State University, Vancouver and Columbia Tech Center in east Clark County. Clinical skills training is in a supervised client care setting in the Clark County area.

Major Area Requirement

NAC 103 NURSING ASSISTANT FOUNDATIONS/CLINICAL 9 cr.

Total Required Credits: 9

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Nursing (Transfer)

Pre-Nursing - DTA/MRP (AA)

This pathway is applicable to students planning to prepare for upper-division Bachelor of Science, Nursing (entry-to-practice/basic BSN pathway) by completing a broad selection of academic courses. Many students transfer to the BSN program after completing the Associate Degree Nursing (ADN) program (RN-to-BSN pathway); however, this agreement is not applicable to and does not alter those ADN-to-BSN articulation agreements.

Students planning a career pathway in Nursing should seek advisement from Clark College's Advising Department early. Besides this degree, Clark has several consortial agreements with regard to degrees in Nursing.

This pathway streamline preparation for the basic BSN pathway across the state. It does not, however, address the issue of significantly inadequate capacity (faculty, clinical opportunities, etc.) at the BSN level relative to workforce needs or current student interest. Due to high interest and limited space in BSN programs, admission to all BSN programs is highly competitive, with many qualified applicants finding themselves on waiting lists for admission.

This document represents an agreement between the following baccalaureate institutions offering an entry-to-practice/basic BSN program and the community and technical colleges system. Baccalaureate institutions party to this agreement include: University of Washington, Seattle; Washington State University; Northwest University; Seattle University; Seattle Pacific University; Pacific Lutheran University; and Walla Walla University. The Washington State University Intercollegiate College of Nursing (WSU-ICN) is a consortium whose members include Eastern Washington University, Gonzaga, and Whitworth. Associate degree transfers to WSU-ICN are admitted through WSU, but not through the other consortium institutions. EWU participated in the development of this agreement.

Though this degree does not require such, Clark College students should know that the standard Clark AA degree path has these differences from the MRP defined below:

- Clark requires 3 credits of Health-Physical Education coursework, and
- Clark's Social Science distribution requirement stipulates that students take courses from at least three different departments.

Students must also meet the residency requirements as established by Clark. While Clark College has approved offering the degree below, Clark students should keep these requirements in mind should their transfer pathways change.

Students are responsible for researching and preparing for specific major requirements of baccalaureate institutions as early as possible prior to transferring.

For more information, please visit the Major Related Programs/Articulated Degrees section of this catalog.

Generic DTA Requirements

A. Basic Requirements 1. Communication Skills 2. Quantitative/Symbolic Reasoning Requirements 5 cr. Intermediate algebra proficiency is required. B. Distribution Requirements 1. Humanities 15 cr. 2. Social Sciences 15 cr. 3. Natural Sciences

C. Electives

Elective Courses

MRP Requirements

A. Basic Requirements

1. English Composition 10 cr.

2. Quantitative/Symbolic Reasoning Requirement

5 cr.

5 quarter credits Statistics (a course that includes descriptive and inferential statistics)

Intermediate algebra proficiency is required.

B. Distribution Requirements

1. Humanities 15 cr.

5 quarter credits of Public Speaking

10 quarter credits of other Humanities

Consistent with the requirements in all DTA degrees - no more than 10 credits per discipline area, 5 credits maximum in world languages or ASL. No more than 5 credits of performance/skills classes are allowed.

2. Social Sciences 15 cr.

- 5 quarter credits, Introduction to Psychology
- 5 quarter credits, Human Development across the Life Span
- 5 credits from the Sociology discipline

3. Natural Sciences

35 credits with at least 25 credits lab-based:

- 5 quarter credits General Biology, the course prerequisite to Anatomy/Physiology
- 10 quarter credits Anatomy and Physiology with lab
- 5 quarter credits Inorganic Chemistry with lab
- 5 quarter credits Organic/Biochemistry with lab (when Organic + Biochemistry are separate courses, both are required)
- 5 quarter credits Microbiology with lab
- 5 quarter credits Human Nutrition

C. Electives

Up to 10 additional quarter credits of which a maximum of 5 credits may be in college-level courses as defined by the community college, and the remainder shall be fully transferable as defined by the receiving institution.

Clark College Equivalents

A. Basic Requirements

1. Communication Skills

ENGL& 101	ENGLISH COMPOSITION I	5 cr.
ENGL& 102	ENGLISH COMPOSITION II	5 cr.

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2. Quantitative/Symbolic Reasoning Requirement

MATH 203	DESCRIPTIVE STATISTICS	3 cr.
MATH 204	INFERENTIAL STATISTICS	3 cr.
B. Distribution Re	equirements	
1. Humanities		
CMST& 220	PUBLIC SPEAKING Fulfills oral communication requirement	5 cr.
10 quarter credits	s of other Humanities, 5 of which can be CMST	
2. Social Sciences		
PSYC& 100	GENERAL PSYCHOLOGY	5 cr.
PSYC& 200	LIFESPAN PSYCHOLOGY	5 cr.
5 credits in Sociol	logy	
3. Natural Science	es	
BIOL& 100	SURVEY OF BIOLOGY	5 cr.
BIOL& 251	HUMAN A & P I	4 cr.
BIOL& 252	HUMAN A & P II	4 cr.
BIOL& 253	HUMAN A & P III	4 cr.
BIOL& 260	MICROBIOLOGY	5 cr.
CHEM& 121	INTRO TO CHEMISTRY: PRE-HEALTH	5 cr.
CHEM& 131	INTRO TO ORGANIC/BIOCHEM	5 cr.
NUTR 103	GENERAL NUTRITION *	3 cr.

C. Electives

1. Elective Courses

Up to 10 additional quarter credits of which a maximum of 5 credits may be in college-level courses as defined by the community college, and the remainder shall be fully transferable as defined by the receiving institution.

Students need to consult with the transfer institution to determine which course is "fully transferable."

Notes

A. Basic Requirements

1. Communication Skills

ENGL& 102 is REQUIRED at Northwest University and Walla Walla University.

2. Quantitative/Symbolic Reasoning Requirement

UW Seattle and Seattle University require 10 credits in quantitative/symbolic reasoning with the additional class in college algebra or pre-calculus (at UW Seattle, a class in Logic also serves for the additional class).

B. Distribution Requirements

1. Humanities

In order to better prepare for successful transfer, students are encouraged to consult with the institution(s) to which they wish to transfer regarding the humanities courses that best support or may be required as prerequisites to their nursing curriculum.

A curriculum that provides students with an understanding of and sensitivity to human diversity is encouraged (required by WSU). Credits in the humanities distribution area provide one opportunity

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for such a curriculum. See the humanities choices in the WSU "Diversity Course Identification Guidelines" for possible selection or choose courses that include minority, non-Western, ethnic or other "area" studies.

2. Social Sciences

Northwest University requires Cultural Anthropology and does not accept a course in the sociology discipline as a substitute. Students may be admitted to the BSN without Cultural Anthropology if they agree to complete the course at NU in the summer prior to the junior year.

A curriculum that provides students with an understanding of and sensitivity to human diversity is encouraged (required by WSU). The credits in sociology provide one opportunity for such a curriculum. See the sociology choices in the WSU "Diversity Course Identification Guidelines" for possible selection or choose courses that include minority, non-Western, ethnic or other "area" studies.

3. Natural Sciences

Introductory survey courses or review courses do not meet the content level expectations for these natural science requirements.

Northwest University requires 2 credits of Genetics as well. Students may be admitted to the BSN without Genetics if they agree to complete the course at NU in the summer prior to the junior year.

At the time of application, when some of the coursework may not yet be completed, UW Seattle requires a minimum GPA of 3.0 for 3 out of the 7 courses or 2.8 for 4 out of the 7.

*Students need to be aware that Clark College's nutrition class is only 3 credits, not the required 5 credits.

C. Electives

1. Elective Courses

See notes under humanities, social science and natural science.

A curriculum that provides students with an understanding of and sensitivity to human diversity is encouraged (required by WSU). The elective credits provide one opportunity for such a curriculum. See the choices in the WSU "Diversity Course Identification Guidelines" for possible course selection or select courses that include minority, non-Western, ethnic or other "area" studies.

Total Required Credits: 90

Nursing - Transfer to WSU Vancouver (AA)

Students who complete the Nursing program at Clark College may choose to continue on to earn a Bachelor of Science in Nursing at Washington State University Vancouver. The following courses are required to meet graduation requirements for the Clark College/WSU Vancouver Direct Transfer Agreement (Associate in Arts).

For information regarding the application process, preliminary requirements, and final admission process, please visit the Clark College Nursing website at www.clark.edu/clarknursing.

Additional Program Prerequisites

BIOL& 260	MICROBIOLOGY	5 cr.
CHEM& 121	INTRO TO CHEMISTRY: PRE-HEALTH	5 cr.

General Education Requirements

Communication Skills (10 credits required)

ENGL& 101	ENGLISH COMPOSITION I	5 cr.
ENGL& 102	ENGLISH COMPOSITION II	5 cr.

Quantitative Skills (5 credits required)

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MATH 203	DESCRIPTIVE STATISTICS	3 cr.
or BUS 203	DESCRIPTIVE STATISTICS	3 cr.
MATH 204	INFERENTIAL STATISTICS	3 cr.
or BUS 204	INFERENTIAL STATISTICS	3 cr.
Physical Education	on Activity (1 credit required)	
Health course wa	aived	
Oral Communica	ations (5 credits required)	
Humanities (15 c	redits required)	
Social Sciences (15 credits required)	
PSYC& 100	GENERAL PSYCHOLOGY	5 cr.
SOC& 101	INTRO TO SOCIOLOGY	5 cr.
Natural Sciences	(15 credits required)	
BIOL& 251	HUMAN A & P I	4 cr.
BIOL& 252	HUMAN A & P II	4 cr.
BIOL& 253	HUMAN A & P III	4 cr.
NUTR 103	GENERAL NUTRITION	3 cr.
Major Area F	Requirements	
NURS 110	FOUNDATIONS OF PROFESSIONAL NURSING	3 cr.
NURS 111	FOUNDATIONS OF NURSING PRACTICE	4 cr.
NURS 113	PROFESSIONAL NURSING SKILLS I	2 cr.
NURS 114	NURSING SKILLS PRACTICE I	1 cr.
NURS 115	NURSING COMPETENCIES AND SIMULATION	2 cr.
NURS 120	NURSING CONCEPTS I	2 cr.
NURS 121	NURSING CONCEPTS IN PRACTICE I	4 cr.
NURS 125	NURSING COMPETENCIES AND SIMULATION	2 cr.
NURS 126	PROFESSIONAL NURSING SKILLS II	1 cr.
NURS 127	NURSING SKILLS PRACTICE II	1 cr.
NURS 130	FAMILY-CENTERED NURSING	2 cr.
NURS 131	NURSING CARE OF THE EMERGING FAMILY	4 cr.
NURS 132	NURSING CARE OF THE CHILD	4 cr.
NURS 133	FAMILY CENTERED NURSING SKILLS	1 cr.
NURS 210	NURSING CONCEPTS II	3 cr.
NURS 211	NURSING CONCEPTS IN PRACTICE II	8 cr.
NURS 212	NURSING SKILLS PRACTICE III	1 cr.
NURS 220	NURSING CONCEPTS III	2 cr.
NURS 221	NURSING CONCEPTS IN PRACTICE III	4 cr.
NURS 222	MENTAL HEALTH CONCEPTS	2 cr.
NURS 223	MENTAL HEALTH IN PRACTICE	4 cr.
NURS 230	PROFESSIONAL LEADERSHIP	2 cr.

NURS 231	PROFESSIONAL LEADERSHIP IN PRACTICE	8 cr.
NURS 232	PROFESSIONAL ROLE IN THE COMMUNITY	1 cr.
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Paralegal

Paralegals, or legal assistants, have come to occupy a recognized place of importance in the legal profession. Responsibilities are broad and may include interviewing clients and witnesses; conducting investigations; developing evidence, legal research, legal document preparation, legal case management; and providing general litigation assistance in various agencies and in the courts.

A legal assistant/paralegal cannot give legal advice, represent a client in court, set a fee, or accept a case; these functions are generally considered the practice of law.

Students must complete all specifically listed courses and Major Area Requirements with a minimum grade of "C" or better in order to successfully complete the program and earn the award.

Refer to the Degree & Certificate Requirements Section of the Clark College Catalog to identify the courses needed to satisfy the General Education Requirements.

Paralegal (CP)

Designed for students with prior college and law office experience.

General Education Requirements

Communication	Skills	(3	credits	rea	uired)
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Human Relations (3 credits required)			
CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.	
or CMST& 230	SMALL GROUP COMMUNICATION	5 cr.	
Computational Skills (3 credits required)			

Major Area Requirements

BTEC 122	WORD FOR BUSINESS	5 cr.
or BTEC 125	INTRODUCTION TO WORD	3 cr.
PRLE 101	INTRODUCTION TO LEGAL THEORY	3 cr.
PRLE 102	LEGAL ETHICS	3 cr.
PRLE 103	LEGAL RESEARCH	3 cr.
PRLE 106	LEGAL WRITING	3 cr.
PRLE 109	CIVIL LITIGATION AND PROCEDURES	3 cr.
or PRLE 110	CRIMINAL LAW AND PROCEDURES	3 cr.
PRLE 151	LEGAL DOCUMENT PREPARATION	3 cr.
PRLE 203	COMPUTER RESEARCH IN LAW	3 cr.
PRLE 209	INSURANCE CLAIMS CASE PREPARATION	3 cr.
PRLE 299	PARALEGAL INTERNSHIP	1-3 cr.

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Additional Major Area Requirements

Select a minimum of 15 credits:

PRLE 109	CIVIL LITIGATION AND PROCEDURES	3 cr.
or PRLE 110	CRIMINAL LAW AND PROCEDURES	3 cr.
PRLE 115	LAW OFFICE PROCEDURES AND COMPUTER TECHNOLOGY	3 cr.
PRLE 204	FAMILY LAW	3 cr.
PRLE 205	ESTATE PLANNING AND PROBATE LAW	3 cr.
PRLE 206	REAL ESTATE AND PROPERTY LAW	3 cr.
PRLE 207	BUSINESS ORGANIZATIONS	3 cr.
PRLE 208	BANKRUPTCY LAW	3 cr.
PRLE 210	LEGAL WRITING II	3 cr.
PRLE 211	TORT LAW AND PROCEDURES	3 cr.
PRLE 212	LAW AND ECONOMICS	3 cr.
PRLE 290	SPECIAL PROJECTS	1-5 cr.
PRLE 295	CASA SPECIAL PROJECT	1-5 cr.

Recommended Electives (Not Required)

Typing skills with at least 40 wpm.

BTEC 147	PROFESSIONAL SELF-DEVELOPMENT	2 cr.
BTEC 150	COMPUTER BUSINESS APPLICATIONS	5 cr.

Total Required Credits: 54-58

Paralegal (AAS)

Designed for students with no prior college and law office experience.

General Education Requirements

Communication Skills (6 credits required)

ENGL& 101	ENGLISH COMPOSITION I	5 cr.
ENGL 212	BUSINESS COMMUNICATIONS	3 cr.
Health & Physical	Education (3 credits required)	3 cr.
Computational Sk	cills (3 credits required)	
MATH 065	FUNDAMENTALS OF BUSINESS MATHEMATICS	5 cr.
Human Relations	(3 credits required)	
CMST& 210	INTERPERSONAL COMMUNICATION*	5 cr.
or CMST& 230	SMALL GROUP COMMUNICATION*	5 cr.
Humanities (3 cre	dits required)	
Social Sciences (3	credits required)	
PSYC& 100	GENERAL PSYCHOLOGY	5 cr.
Natural Sciences (3 credits required)	

Major Area Requirements

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DIEC 122	WORD FOR BUSINESS	5 CI.
or BTEC 125	INTRODUCTION TO WORD	3 cr.
BTEC 150	COMPUTER BUSINESS APPLICATIONS	5 cr.
BTEC 165	POWERPOINT PRESENTATION	3 cr.
or BTEC 169	INTRODUCTION TO EXCEL	3 cr.
or BTEC 170	EXCEL FOR BUSINESS	3 cr.
or BTEC 175	ACCESS FOR BUSINESS	3 cr.
BUS 028	BASIC ACCOUNTING PROCEDURES	3 cr.
BUS& 201	BUSINESS LAW	5 cr.
ENGL 212	BUSINESS COMMUNICATIONS	3 cr.
POLS 111	AMERICAN NATIONAL GOVERNMENT AND POLITICS	5 cr.
or POLS 131	STATE AND LOCAL GOVERNMENT	5 cr.
or POLS 141	SURVEY OF STATE AND LOCAL GOVERNMENT	3 cr.
or POLS 171	SURVEY OF THE UNITED STATES CONSTITUTION	3 cr.
PRLE 101	INTRODUCTION TO LEGAL THEORY	3 cr.
PRLE 102	LEGAL ETHICS	3 cr.
PRLE 103	LEGAL RESEARCH	3 cr.
PRLE 106	LEGAL WRITING	3 cr.
PRLE 109	CIVIL LITIGATION AND PROCEDURES	3 cr.
or PRLE 110	CRIMINAL LAW AND PROCEDURES	3 cr.
PRLE 150	INTERVIEWING, INVESTIGATION AND EVIDENCE	3 cr.
PRLE 151	LEGAL DOCUMENT PREPARATION	3 cr.
PRLE 203	COMPUTER RESEARCH IN LAW	3 cr.
PRLE 209	INSURANCE CLAIMS CASE PREPARATION	3 cr.
PRLE 299	PARALEGAL INTERNSHIP	1-3 cr.
Additional M	ajor Area Requirements	
Select a minimum	n of 15 credits:	
PRLE 109	CIVIL LITIGATION AND PROCEDURES	3 cr.
or PRLE 110	CRIMINAL LAW AND PROCEDURES	3 cr.
PRLE 115	LAW OFFICE PROCEDURES AND COMPUTER TECHNOLOGY	3 cr.
PRLE 204	FAMILY LAW	3 cr.
PRLE 205	ESTATE PLANNING AND PROBATE LAW	3 cr.
PRLE 206	REAL ESTATE AND PROPERTY LAW	3 cr.
PRLE 207	BUSINESS ORGANIZATIONS	3 cr.
PRLE 208	BANKRUPTCY LAW	3 cr.
PRLE 210	LEGAL WRITING II	3 cr.
PRLE 211	TORT LAW AND PROCEDURES	3 cr.
PRLE 212	LAW AND ECONOMICS	3 cr.
PRLE 290	SPECIAL PROJECTS	1-5 cr.

PRLE 295 CASA SPECIAL PROJECT 1-5 cr.

Recommended Elective (Not required)

Typing skills with at least 40 wpm.

BTEC 147 PROFESSIONAL SELF-DEVELOPMENT

2 cr.

Total Required Credits: 94-98

* CMST courses may not count for more than two distribution areas of general education requirements.

Pharmacy Technician

Pharmacy technicians in Washington and Oregon are employed in hospitals and outpatient facilities. They assist licensed pharmacists in dispensing medications, assist with compounding and IV drug preparation, take inventory, stock supplies, type prescription labels, and perform other assignments as allowed by law. Pharmacy technicians, by law, are employed under the direct supervision of a licensed pharmacist. Both chain and community retail pharmacies, as well as all hospitals, employ pharmacy technicians.

The profession of pharmacy requires highly motivated and trained technicians to provide the drug preparation and distributive functions that support the medication management and pharmaceutical care duties of the pharmacist.

Clark College's program consists of classroom and practicum education and training. Students learn the theory in class, practice in a mock pharmacy mini-lab, and then apply their knowledge in actual pharmacy practicum settings.

The current certificate program includes a three-quarter, 63-64 credit course sequence. The practicum (direct pharmacy training) consists of two 120-hour experiences in different pharmacy sites under the supervision of a pharmacist.

Application Process

Admission to the program is outlined in two stages: preliminary requirements and final program admission.

Preliminary Requirements

To comply with Washington State Law [WAC 246-901-030(2)], Clark College requires that students must submit proof of high school graduation, GED completion, or U.S. degree conferment to be eligible for selection into the Pharmacy Technician program. Students must submit official transcripts in a sealed envelope to the Clark College Welcome Center.

Students must apply and pay an application fee to be included in selection. Application date is used in ranking students for selection, so it is beneficial to apply early.

Candidates must:

- Complete the Clark College Application for Admission and the Pharmacy Technician Application. Return them to the Clark College Welcome Center with the non-refundable program application fees (subject to change). For the current fee amounts, please visit the Pharmacy Technician website at www.clark.edu/pharmacytech. Date of Pharmacy Application (fee paid date) will be considered in selecting students for entry into the program.
- Submit official high school transcripts (or GED scores) and official college transcripts from all colleges attended.
- Earn a COMPASS Testing score of 74 or higher in reading, or complete READ 087 or equivalent with a 2.0 grade or higher.

- Earn a COMPASS Testing score of 78 or higher in writing, or complete ENGL 098 or equivalent with a 2.0 grade or higher.
- Earn a COMPASS Testing score of 54 or higher in math numerical skills, or complete MATH 030 or equivalent with a 2.0 grade or higher (Math score or class must be seven [7] years current upon program entry).
- Complete program Pre-Application Requirements with a 2.0 GPA or better:
 - BMED 110 Medical Terminology
 - BTEC 149 Computer Application Essentials (or BTEC 116, 117 AND 118)
 - HEOC 102 Survey of Health Careers (formerly HEOC 090)
 - HEOC 120 AIDS Education (or proof of 4-7 hour AIDS Education certificate)
- Obtain a minimum Clark College cumulative GPA of 2.5 or above.
- Accepted students must complete a Washington State Patrol and FBI criminal background check

The most recent educational experience will be used to meet these criteria. Applicants are responsible for requesting their official high school and college transcripts be sent to Clark College.

Additional Requirements

Prior to program entry students must complete additional course requirements with a 2.0 or above:

• HEOC 100 AND HEOC 101- Basic Concepts of Anatomy and Physiology w/lab (must be seven years current upon program entrance).

OR

- BIOL 164 AND 165- Human Biology w/lab (must be seven years current upon program entrance).
- FACPR 032- First Aid and Health Care Provider CPR
- BMED 138- Legal Aspects of the Medical Office

Completion of CMST& 210 prior to entering the program is strongly encouraged.

Final Program Admission

Upon completion of preliminary requirements, an evaluation will be completed, and the applicant will be notified by the Credential Evaluations Office of additional procedures necessary for program consideration.

Program Progression

In order to progress from one course or quarter to the next after beginning the Pharmacy Technician program, the student must:

- Achieve a GPA of 2.0 or higher in all courses.
- Maintain a cumulative GPA of 2.5 or higher.

Graduates of the Clark College Pharmacy Technician program will be eligible for:

- Clark College Certificate of Proficiency
- Washington Board of Pharmacy Certificate
- Oregon Board of Pharmacy Registration
- National Pharmacy Technician Certification Exam

Please note: Completion of the Pre-Pharmacy Technician requirements does not guarantee entrance into the program. The Pharmacy Technician program has limited enrollment and Clark College reserves the right to determine

admission status.

Disability Statement for Health Occupations

In accordance with the Americans with Disabilities Act and the Rehabilitation Act of 1973, accommodations for students with disabilities will be considered at the student's request. The student may need to provide documentation of disability to the Disability Support Services Office to support his/her accommodation requests. Documentation guidelines and procedures can be found at www.clark.edu/dss. Once the student is qualified by DSS as having a disability, requested accommodations will be considered. Accommodations for the classroom, laboratory, or clinical setting will be evaluated according to reasonableness. Accommodations that compromise patient care, or that fundamentally alter the essential functions of the program or activity, are not considered to be reasonable.

Pharmacy Technician (CP)

Program Pre-application Prerequisites

BMED 110	MEDICAL TERMINOLOGY I *	3 cr.
BTEC 149	COMPUTER APPLICATIONS ESSENTIALS	3 cr.
or BTEC 116	APPLICATION ESSENTIALS: WORD	1 cr.
and BTEC 117	APPLICATION ESSENTIALS: EXCEL	1 cr.
and BTEC 118	APPLICATION ESSENTIALS: POWERPOINT	1 cr.
HEOC 102	HEALTH CAREERS EXPLORATION	2 cr.
HEOC 120	AIDS EDUCATION	1 cr.

Additional Requirements

BMED 138	LEGAL ASPECTS OF THE MEDICAL OFFICE	2 cr.
FACPR032	FIRST AID AND HEALTH CARE PROVIDER CPR	1 cr.
HEOC 100	BASIC CONCEPTS OF ANATOMY AND PHYSIOLOGY *	3 cr.
and HEOC 101	BASIC CONCEPTS OF ANATOMY & PHYSIOLOGY LAB *	1 cr.
or BIOL 164	HUMAN BIOLOGY *	4 cr.
and BIOL 165	HUMAN BIOLOGY LAB *	1 cr.

General Education Requirements Communication Skills (3 credits required)

Communication Skills (3 credits required)		3 cr.
Computational Skills	s (3 credits required)	
PHAR 110	PHARMACY CALCULATIONS	3 cr.
Human Relations (3	credits required)	
CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.

Major Area Requirements

BMED 111	MEDICAL TERMINOLOGY II	3 cr.
PHAR 105	INTRODUCTION TO PHARMACY	4 cr.
PHAR 112	PHARMACOLOGY I	5 cr.
PHAR 114	PHARMACY PRACTICE AND TECHNOLOGY	4 cr.

PHAR 118	PHARMACY EXTERNSHIP I	4 cr.
PHAR 119	PHARMACY EXTERNSHIP SEMINAR I	2 cr.
PHAR 122	PHARMACOLOGY II	5 cr.
PHAR 123	PHARMACY LAW	2 cr.
PHAR 127	PHARMACY COMPOUNDING	4 cr.
PHAR 128	PHARMACY EXTERNSHIP II	4 cr.
PHAR 129	PHARMACY EXTERNSHIP SEMINAR II	2 cr.

General Information

Selection criteria is subject to change. For complete updated information, please refer to the application materials, available online at www.clark.edu/pharmacytech.

Pharmacy Technician Leadership (AAT)

The Associate in Applied Technology (AAT) in Pharmacy Technician Leadership is intended for those students who would like to continue their education beyond the Pharmacy Technician Certificate of Proficiency. Currently, the Certificate of Proficiency is a one-year program. Courses required for the AAT focus on developing skill sets in leadership, business relations, and professional development. These additional skill sets will provide students with a significant advantage in securing entry-level positions as well as progressing within their career field.

Program Prerequisites

BMED 138 LEGAL ASPECTS OF THE MEDICAL OFFICE 2 cr. BTEC 149 COMPUTER APPLICATIONS ESSENTIALS 3 cr. or BTEC 116 APPLICATION ESSENTIALS: WORD 1 cr. and BTEC 117 APPLICATION ESSENTIALS: EXCEL 1 cr. and BTEC 118 APPLICATION ESSENTIALS: POWERPOINT 1 cr. FACPR032 FIRST AID AND HEALTH CARE PROVIDER CPR 1 cr. HEOC 100 BASIC CONCEPTS OF ANATOMY AND PHYSIOLOGY* 3 cr. and HEOC 101 BASIC CONCEPTS OF ANATOMY & PHYSIOLOGY LAB* 1 cr. or BIOL 164 HUMAN BIOLOGY* 4 cr. and BIOL 165 HUMAN BIOLOGY LAB* 1 cr. HEOC 102 HEALTH CAREERS EXPLORATION 2 cr. HEOC 120 AIDS EDUCATION	BMED 110	MEDICAL TERMINOLOGY I *	3 cr.
or BTEC 116 APPLICATION ESSENTIALS: WORD 1 cr. and BTEC 117 APPLICATION ESSENTIALS: EXCEL 1 cr. and BTEC 118 APPLICATION ESSENTIALS: POWERPOINT 1 cr. FACPR032 FIRST AID AND HEALTH CARE PROVIDER CPR 1 cr. HEOC 100 BASIC CONCEPTS OF ANATOMY AND PHYSIOLOGY * 3 cr. and HEOC 101 BASIC CONCEPTS OF ANATOMY & PHYSIOLOGY LAB * 1 cr. or BIOL 164 HUMAN BIOLOGY * 4 cr. and BIOL 165 HUMAN BIOLOGY LAB * 1 cr. HEOC 102 HEALTH CAREERS EXPLORATION 2 cr.	BMED 138	LEGAL ASPECTS OF THE MEDICAL OFFICE	2 cr.
and BTEC 117 APPLICATION ESSENTIALS: EXCEL 1 cr. and BTEC 118 APPLICATION ESSENTIALS: POWERPOINT 1 cr. FACPR032 FIRST AID AND HEALTH CARE PROVIDER CPR 1 cr. HEOC 100 BASIC CONCEPTS OF ANATOMY AND PHYSIOLOGY * 3 cr. and HEOC 101 BASIC CONCEPTS OF ANATOMY & PHYSIOLOGY LAB * 1 cr. or BIOL 164 HUMAN BIOLOGY * 4 cr. and BIOL 165 HUMAN BIOLOGY LAB * 1 cr. HEOC 102 HEALTH CAREERS EXPLORATION 2 cr.	BTEC 149	COMPUTER APPLICATIONS ESSENTIALS	3 cr.
and BTEC 118 APPLICATION ESSENTIALS: POWERPOINT 1 cr. FACPR032 FIRST AID AND HEALTH CARE PROVIDER CPR 1 cr. HEOC 100 BASIC CONCEPTS OF ANATOMY AND PHYSIOLOGY * 3 cr. and HEOC 101 BASIC CONCEPTS OF ANATOMY & PHYSIOLOGY LAB * 1 cr. or BIOL 164 HUMAN BIOLOGY * 4 cr. and BIOL 165 HUMAN BIOLOGY LAB * 1 cr. HEOC 102 HEALTH CAREERS EXPLORATION 2 cr.	or BTEC 116	APPLICATION ESSENTIALS: WORD	1 cr.
FACPR032 FIRST AID AND HEALTH CARE PROVIDER CPR 1 cr. HEOC 100 BASIC CONCEPTS OF ANATOMY AND PHYSIOLOGY * 3 cr. and HEOC 101 BASIC CONCEPTS OF ANATOMY & PHYSIOLOGY LAB * 1 cr. or BIOL 164 HUMAN BIOLOGY * 4 cr. and BIOL 165 HUMAN BIOLOGY LAB * 1 cr. HEOC 102 HEALTH CAREERS EXPLORATION 2 cr.	and BTEC 117	APPLICATION ESSENTIALS: EXCEL	1 cr.
HEOC 100 BASIC CONCEPTS OF ANATOMY AND PHYSIOLOGY * 3 cr. and HEOC 101 BASIC CONCEPTS OF ANATOMY & PHYSIOLOGY LAB * 1 cr. or BIOL 164 HUMAN BIOLOGY * 4 cr. and BIOL 165 HUMAN BIOLOGY LAB * 1 cr. HEOC 102 HEALTH CAREERS EXPLORATION 2 cr.	and BTEC 118	APPLICATION ESSENTIALS: POWERPOINT	1 cr.
and HEOC 101 BASIC CONCEPTS OF ANATOMY & PHYSIOLOGY LAB * 1 cr. or BIOL 164 HUMAN BIOLOGY * 4 cr. and BIOL 165 HUMAN BIOLOGY LAB * 1 cr. HEOC 102 HEALTH CAREERS EXPLORATION 2 cr.	FACPR032	FIRST AID AND HEALTH CARE PROVIDER CPR	1 cr.
or BIOL 164 HUMAN BIOLOGY * 4 cr. and BIOL 165 HUMAN BIOLOGY LAB * 1 cr. HEOC 102 HEALTH CAREERS EXPLORATION 2 cr.	HEOC 100	BASIC CONCEPTS OF ANATOMY AND PHYSIOLOGY *	3 cr.
and BIOL 165 HUMAN BIOLOGY LAB * 1 cr. HEOC 102 HEALTH CAREERS EXPLORATION 2 cr.	and HEOC 101	BASIC CONCEPTS OF ANATOMY & PHYSIOLOGY LAB *	1 cr.
HEOC 102 HEALTH CAREERS EXPLORATION 2 cr.	or BIOL 164	HUMAN BIOLOGY *	4 cr.
	and BIOL 165	HUMAN BIOLOGY LAB *	1 cr.
HEOC 120 AIDS EDUCATION 1 cr.	HEOC 102	HEALTH CAREERS EXPLORATION	2 cr.
	HEOC 120	AIDS EDUCATION	1 cr.

General Education Requirements

Communication Skills (5 credits required)

ENGL& 101	ENGLISH COMPOSITION I	5 cr.
or ENGL 135	INTRODUCTION TO TECHNICAL WRITING	5 cr.
Computational Sk	ills (5 credits required)	5 cr.

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Human Relations (5 credits required)

^{*} Must be seven years current upon program entry.

CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.
Major Area F	Requirements	
BMED 111	MEDICAL TERMINOLOGY II	3 cr.
PHAR 105	INTRODUCTION TO PHARMACY	4 cr.
PHAR 110	PHARMACY CALCULATIONS	3 cr.
PHAR 112	PHARMACOLOGY I	5 cr.
PHAR 114	PHARMACY PRACTICE AND TECHNOLOGY (with lab)	4 cr.
PHAR 118	PHARMACY EXTERNSHIP I	4 cr.
PHAR 119	PHARMACY EXTERNSHIP SEMINAR I	2 cr.
PHAR 122	PHARMACOLOGY II	5 cr.
PHAR 123	PHARMACY LAW	2 cr.
PHAR 127	PHARMACY COMPOUNDING	4 cr.
PHAR 128	PHARMACY EXTERNSHIP II	4 cr.
PHAR 129	PHARMACY EXTERNSHIP SEMINAR II	2 cr.
Additional R	Requirements	
HDEV 120	PRACTICAL REASONING AND DECISION MAKING	3 cr.
HDEV 200	PROFESSIONAL DEVELOPMENT	2 cr.
MGMT 101	PRINCIPLES OF MANAGEMENT	3 cr.
MGMT 133	PRODUCTION AND OPERATIONS MANAGEMENT	3 cr.
Electives		
Select a minimu	m of two(2) courses from the following list:	
ACED 101	SURVEY OF ADDICTIONOLOGY	3 cr.
BMED 222	HEALTH INFORMATION PROCEDURES	5 cr.
BUS 110	CUSTOMER SERVICE	3 cr.
BUS 211	BUSINESS COMMUNICATIONS	3 cr.
or ENGL 212	BUSINESS COMMUNICATIONS	3 cr.
HUM 180	BIOETHICS	3 cr.
or BIOL 180	BIOETHICS	3 cr.
MGMT 106	MOTIVATION AND PERFORMANCE	3 cr.

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Phlebotomy

The Phlebotomy curriculum prepares students to perform skin and venipunctures, to obtain laboratory specimens, and to function as a member of a medical laboratory team.

The program curriculum includes a one-quarter lab practicum (HEOC 197) that gives students actual practice working in a health care facility.

^{*} Must be seven years current upon program entry.

A department certificate is awarded to those who successfully complete the program requirements. Graduates are also eligible to apply for certification through the National Accrediting Agency for Clinical Laboratory Sciences (NAA-CLS) by formal examination offered on a biannual basis. Prior to the exam, a review course is offered at Clark to graduates of the program.

Application Process

The Phlebotomy Program is a two-quarter clinical program with preliminary requirements that must be completed before program entry. Admission to the program is outlined in two stages: preliminary requirements and final program admission.

Disability Statement for Health Occupations

In accordance with the Americans with Disabilities Act and the Rehabilitation Act of 1973, accommodations for students with disabilities will be considered at the student's request. The student may need to provide documentation of disability to the Disability Support Services Office to support his/her accommodation requests. Documentation guidelines and procedures can be found at www.clark.edu/dss. Once the student is qualified by DSS as having a disability, requested accommodations will be considered. Accommodations for the classroom, laboratory, or clinical setting will be evaluated according to reasonableness. Accommodations that compromise patient care, or that fundamentally alter the essential functions of the program or activity, are not considered to be reasonable.

Phlebotomy (CA)

Candidates must:

- Complete the Clark College Application for Admission and the Phlebotomy Application. Return to the Clark College Welcome Center with the non-refundable program application fees (subject to change). For current fee amounts, please visit the Phlebotomy website at www.clark.edu/phlebotomy. Date of Phlebotomy Application (fee paid date) will be considered in selecting students for entry into the program.
- Submit official college transcripts if you have transfer credits you wish to apply to the program. Students who do not plan to apply transfer credits toward the program are not required to submit official transcripts.
- Take the Clark College Compass Test to determine writing and reading levels. Call 360-992-2588 for Assessment Center hours.
- Obtain a minimum Clark College cumulative GPA of 2.0 or above.
- Complete Preliminary Requirements with a 2.0 or higher.

The most recent educational experience will be used to meet these criteria. Applicants are responsible for requesting that college transcripts be sent to Clark College.

Final Program Admission

Upon completion of preliminary requirements, an evaluation will be completed, and the applicant will be notified by the Credential Evaluations Office of additional procedures necessary for program consideration. Application (fee paid) date is used in ranking students for selection, so it is beneficial to apply early.

Program Progression

To successfully complete the Phlebotomy program, keep in mind the following:

- Students may be included in selection 3 times, after which their file becomes inactive.
- All students must successfully complete HEOC 115/115L with a grade "B" or better as well as the required venipunctures and lab hours to progress into the clinical portion of the program.

- If a student is unable to continue with the clinical portion immediately following HEOC 115/115L, they must reapply to begin again with the next available cohort (and retake HEOC 115/115L). Students who wish to be considered for their second opportunity must notify the Credential Evaluations office in writing (letter or email). Students will be accepted on a space-available basis.
- HEOC 115/115L may be repeated one time only.

General Information

Selection criteria are subject to change. For complete updated information, please refer to the application materials, available online at www.clark.edu/phlebotomy.

Preliminary Requirements

BTEC 087	APPLIED OFFICE ENGLISH (or higher)	3 cr.
BMED 110	MEDICAL TERMINOLOGY I	3 cr.
FACPR032	FIRST AID AND HEALTH CARE PROVIDER CPR	1 cr.
HEOC 102	HEALTH CAREERS EXPLORATION	2 cr.
HEOC 120	AIDS EDUCATION	1 cr.
Program Re	quirements	

BMED 111	MEDICAL TERMINOLOGY II	3 cr.
BMED 138	LEGAL ASPECTS OF THE MEDICAL OFFICE	2 cr.
HEOC 100	BASIC CONCEPTS OF ANATOMY AND PHYSIOLOGY	3 cr.
and HEOC 101	BASIC CONCEPTS OF ANATOMY & PHYSIOLOGY LAB	1 cr.
or BIOL 164	HUMAN BIOLOGY	4 cr.
and BIOL 165	HUMAN BIOLOGY LAB	1 cr.
HEOC 115	PHLEBOTOMY EDUCATION (with lab)	3 cr.
HEOC 160	LABORATORY PROCEDURES FOR THE MEDICAL OFFICE (with lab)	4 cr.
HEOC 197	PHLEBOTOMY CLINICAL EXPERIENCE	4 cr.
HEOC 198	PHLEBOTOMY CLINICAL SEMINAR	1 cr.

Total Required Credits: 31-32

Phlebotomy with Nursing Assistant Certified (CA)

The Phlebotomy with Nursing Assistant Certified (NAC) Certificate of Achievement is a combination of the Phlebotomy Certificate of Achievement and the Nursing Assistant program of study offered at Clark College. The certificate program provides students with training in phlebotomy, skin and venipunctures, and how to obtain laboratory specimens, as well as basic functions of a nursing assistant, basic nursing care, safety, and emergency nursing procedures. The program offers a blend between classroom instruction, to include the six-course healthcare core curriculum, and on-site clinical experiences in both phlebotomy and nursing assistant. Upon completion of the Certificate of Achievement at Clark College, students are eligible to apply for two separate certifications: a national phlebotomy certification through the National Accrediting Agency for Clinical Laboratory Sciences (NAA-CLS), and the state certification for nursing assistants.

Note: Students must apply to Phlebotomy and NAC programs separately. Please see entrance requirements for

Phlebotomy listed on the tab above, the restrictions for the NAC program are as follows.

Participation Requirements

- 18 years of age or older
- High school diploma or GED is recommended, but not required
- Proof of 2-step TB test or clear chest x-ray within 6 months upon acceptance into the program.
- Clear criminal background check
- Upon successful selection, attendance at mandatory Nursing Assistant Orientation

NAC - For Credit Requirements

- All applicants must submit the following three (3) items to the Clark College Welcome Center, PUB
 002, by the stated deadline on the Statement of Intent form in order to be considered for the quarter's
 NAC class.
- Application for Admission to (if not already a student at) Clark College
- Statement of Intent form
- Criminal Background Check

Classes are held at the Clark Center at Washington State University, Vancouver and Columbia Tech Center in east Clark County. Clinical skills training is in a supervised client care setting in the Clark County area.

Preliminary Requirements

BTEC 087	APPLIED OFFICE ENGLISH (or higher)	3 cr.
BMED 110	MEDICAL TERMINOLOGY I	3 cr.
FACPR032	FIRST AID AND HEALTH CARE PROVIDER CPR	1 cr.
HEOC 102	HEALTH CAREERS EXPLORATION	2 cr.
HEOC 120	AIDS EDUCATION	1 cr.
Program Req	uirements	
BMED 111	MEDICAL TERMINOLOGY II	3 cr.
BMED 138	LEGAL ASPECTS OF THE MEDICAL OFFICE	2 cr.
HEOC 100	BASIC CONCEPTS OF ANATOMY AND PHYSIOLOGY	3 cr.
and HEOC 101	BASIC CONCEPTS OF ANATOMY & PHYSIOLOGY LAB	1 cr.
or BIOL 164	HUMAN BIOLOGY	4 cr.
and BIOL 165	HUMAN BIOLOGY LAB	1 cr.
HEOC 115	PHLEBOTOMY EDUCATION (with lab)	3 cr.
HEOC 160	LABORATORY PROCEDURES FOR THE MEDICAL OFFICE (with lab)	4 cr.
HEOC 197	PHLEBOTOMY CLINICAL EXPERIENCE	4 cr.
HEOC 198	PHLEBOTOMY CLINICAL SEMINAR	1 cr.
NAC 103	NURSING ASSISTANT FOUNDATIONS/CLINICAL	9 cr.

Total Required Credits: 40-41

Physics (Transfer)

Physics is the study of the fundamental nature of our universe. This knowledge is applicable to a wide variety of disciplines in the biological and physical sciences, engineering, medicine, and technology. By taking physics at Clark College, you will get the benefits of small class size, up-to-date laboratory equipment, and instructors who place their emphasis on quality learning.

Physics majors can choose from a variety of courses and are encouraged to explore a wide sample of offerings to obtain a well-rounded education. Students wishing to major in physics should contact the Physics Department for program guidance.

Physics (AST2)

This is a suggested program for the first two years of major study in Physics. Lower-division course requirements will vary depending on the transfer institution. Contact an advisor at the transfer institution to determine required coursework as early as possible. Additional courses are needed to satisfy graduation requirements for the Associate in Science or the Associate in Arts degree.

General Education Requirements

Communication	Skills (4	5 credits required)
Communication	JKIIIJ (.	J Creatis required/

ENGL& 101	ENGLISH COMPOSITION I	5 cr.
Quantitative Skills	(10 credits required)	
MATH& 151	CALCULUS I	5 cr.
MATH& 152	CALCULUS II	5 cr.
Health & Physical E	Education (3 credits required)	
Health Requiremen	nt	2 cr.
Physical Education Activity		1 cr.
Humanities & Socia	al Sciences (15 credits required)	
CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.
or CMST& 220	PUBLIC SPEAKING	5 cr.
or CMST& 230	SMALL GROUP COMMUNICATION	5 cr.
Humanities and So	ocial Sciences Requirements	10 cr.

Pre-Major Program Requirements

ENGL& 102	ENGLISH COMPOSITION II	5 cr.
or ENGL 109	WRITING ABOUT THE SCIENCES	5 cr.
MATH 111	COLLEGE ALGEBRA	5 cr.
MATH& 153	CALCULUS III	5 cr.
MATH 221	DIFFERENTIAL EQUATIONS	5 cr.
MATH& 254	CALCULUS IV	5 cr.
Electives	1-5 cr.	

Science Sequence Requirements

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CHEM& 142	GENERAL CHEMISTRY II	4 cr.
CHEM& 143	GENERAL CHEMISTRY III	4 cr.
CHEM& 151	GENERAL CHEMISTRY LABORATORY I	1 cr.
CHEM& 152	GENERAL CHEMISTRY LABORATORY II	1 cr.
CHEM& 153	GENERAL CHEMISTRY LABORATORY III	2 cr.
PHYS& 221	ENGINEERING PHYSICS	5 cr.
PHYS& 222	ENGINEERING PHYSICS	5 cr.
PHYS& 223	ENGINEERING PHYSICS	5 cr.

Total Required Credits: 90 minimum

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Physics Education (Transfer)

Physics is the study of the fundamental nature of our universe. This knowledge is applicable to a wide variety of disciplines in the biological and physical sciences, engineering, medicine, and technology. By taking physics at Clark College, you will get the benefits of small class size, up-to-date laboratory equipment, and instructors who place their emphasis on quality learning.

Physics majors can choose from a variety of courses and are encouraged to explore a wide sample of offerings to obtain a well-rounded education. Students wishing to major in physics should contact the Physics Department for program guidance.

Physics Education (AST2)

The following is a degree program designed by a consortium of two-year and four-year colleges in Washington. Students should be aware that baccalaureate institutions may have slightly different requirements for these degrees, and students should consult the transfer institution for exact questions.

Students should complete the entirety of any science sequence at the same school for best transferability. These degrees are not DTA degrees, and there are some general education requirements that students will need to finish upon transfer.

Though this degree does not require such, Clark College students should know that the standard Clark AS degree path has these differences from the Articulated Degree defined below:

• Clark requires 3 credits of Health-Physical Education coursework.

Students must also meet the residency requirements as established by Clark. While Clark College has approved offering the degree below, Clark students should keep these requirements in mind should their transfer pathways change.

Students completing this Associate of Science will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the direct transfer associate degree and will be given junior status by the receiving institution.

Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring.

For more information, please visit the Major Related Programs/Articulated Degrees section of this catalog.

Generic Requirements

A. Basic Requirements

1. Communication Skills	5 cr.
2. Quantitative/Symbolic Reasoning	5 cr.

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B. Distribution Requirements

1. Humanities/Fine Arts/English & Social Sciences

15 cr.

15 credits of humanities and social science with at least 5 credits taken from each. Three different subjects required. No more than 5 credits of performance classes are allowed.

2. Science Pre-Major Requirements

- Physics (calculus-based or non-calculus based sequence including laboratory [15 quarter credits])
- Chemistry with laboratory (5 credits) required for Engineering majors. Others should select 5 credits of science based on advising.
- Computer programming (4 quarter credits) credit course chosen with the help of an advisor based on the requirements of the specific discipline at the baccalaureate institution the student plans to attend.
- Third-quarter calculus or approved statistics course: 5 quarter credits chosen with the help of an advisor based on the requirements of the specific discipline at the baccalaureate institution the student plans to attend.

C. Electives

1. Elective Courses

The remaining 31 quarter credits should be planned with the help of an advisor based on the requirements of the specific discipline at the baccalaureate institution the student selects to attend. For Engineering disciplines, these credits should include a design component consistent with ABET accreditation standards.

Articulated Degree Requirements

A. Basic Requirements

1. English Composition5 cr.2. Calculus10 cr.

Intermediate algebra proficiency is required.

B. Distribution Requirements

1. Humanities/Fine Arts/English & Social Sciences

15 cr.

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5 quarter credits Introductory Speech

5 quarter credits General Psychology

2. Science Pre-major Requirement

- 15 quarter credits Physics (calculus-based)
- 10 quarter credits General Chemistry
- 10 credits 3rd and 4th quarter calculus
- 5 quarter credits Linear Algebra
- 5 quarter credits Differential Equations

C. Electives

1. Elective Courses

10-15 credits, depending on pathways above. 5 additional quarter credits of English composition. 1 credit selected from this area within the AST. Field Experience or Intro to Education recommended. **Clark College Equivalents** A. Basic Requirements 1. Communication Skills ENGL& 101 **ENGLISH COMPOSITION I** 5 cr. 2. Quantitative/Symbolic Reasoning Requirements MATH& 151 CALCULUS I 5 cr. MATH& 152 **CALCULUS II** 5 cr. **B. Distribution Requirements** 1. Humanities/Fine Arts/English & Social Sciences CMST& 220 PUBLIC SPEAKING 5 cr. **PSYC& 100 GENERAL PSYCHOLOGY** 5 cr. 2. Science Pre-Major Requirement PHYS& 221 **ENGINEERING PHYSICS** 5 cr. PHYS& 222 **ENGINEERING PHYSICS** 5 cr. PHYS& 223 **ENGINEERING PHYSICS** 5 cr. CHEM& 141 GENERAL CHEMISTRY I 4 cr. CHEM& 142 4 cr. GENERAL CHEMISTRY II CHEM& 151 GENERAL CHEMISTRY LABORATORY I 1 cr. CHEM& 152 GENERAL CHEMISTRY LABORATORY II 1 cr. MATH& 153 CALCULUS III 5 cr. MATH& 254 CALCULUS IV 5 cr. MATH 215 LINEAR ALGEBRA 5 cr. **DIFFERENTIAL EQUATIONS** MATH 221 5 cr. C. Electives 1. Elective Courses 1 cr. selected from this area within the AST. **ENGLISH COMPOSITION II Required** ENGL& 102 5 cr. EDUC& 201 INTRODUCTION TO EDUCATION Recommended 3 cr. EDUC 210 INTRODUCTORY FIELD EXPERIENCE Recommended 3 cr. Plus additional credits to reach 90 minimum quarter credits. These may include needed college-level

calculus prerequisites.

Notes

A. Basic Requirements

1. Quantitative/Symbolic Reasoning Requirement

Pre-Calculus courses do not meet this requirement.

B. Distribution Requirements

1. Humanities/Fine Arts/English & Social Sciences

Courses in Humanities/Social Science must come from the current ICRC distribution list in order to count as General Education or General University Requirements (GERs/GURs) at the receiving institution. Additional general educational requirements, cultural diversity requirements, and foreign language requirements, as required by the transfer institution, must be met prior to the completion of a baccalaureate degree.

2. Science Pre-major Requirement

Students should be advised that some baccalaureate institutions require physics with calculus to meet this requirement.

C. Electives

1. Elective Courses

A maximum of five (5) quarter credits of "gray area" courses will be accepted in the remaining credits category.

Total Required Credits: 90

Power Utilities Technology

The Power Utilities Technology Utilities Technology programs prepare the student for various entry-level positions in electric utilities, firms servicing the utilities, and industrial firms using power level electrical equipment in their operations.

Electric power system operation involves high power level generation; transmission and distribution facilities; and related monitoring, control, and protection equipment. Efficient and reliable operation of these systems requires operations and maintenance staff members who understand the characteristics of the various systems and understand how to safely operate and maintain such complex and high power level equipment.

General Preparation

Many of the courses in the program and in the utility/industrial workplace environment require basic mathematics skills (algebra and trigonometry), basic physics knowledge, and written and spoken language skills. Testing is required to determine if mathematical and English levels are adequate for admission to the program.

Refer to the Degree & Certificate Requirements Section of the Clark College Catalog to identify the courses needed to satisfy the General Education Requirements.

Power Utilities Technology (CP)

General Education Requirements

Communication Skills (3 credits required)

ENGL 135	INTRODUCTION TO TECHNICAL WRITING	5 cr.
Computational Skil	ls (3 credits required)	
MATH 098	TECHNICAL MATHEMATICS I	3 cr.
Human Relations (3	credits required)	

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Major Area Requirements

	•	
BTEC 149	COMPUTER APPLICATIONS ESSENTIALS	3 cr.
HLTH 120	ADULT CPR AND FIRST AID **	1 cr.
MATH 099	TECHNICAL MATHEMATICS II	3 cr.
PWR 101	BASIC ELECTRICAL CONCEPTS *	7 cr.
PWR 150	CAREER EXPLORATION FOR THE POWER UTILITIES	1 cr.
PWR 151	INTRODUCTION TO THE POWER UTILITIES INDUSTRY	7 cr.
PWR 152	TOOLS OF THE TRADE	2 cr.
PWR 153	ELECTRICAL SAFETY	1 cr.
PWR 154	ELECTRICAL SYSTEM COMPONENTS	7 cr.
PWR 155	PRINT READING FOR THE UTILITY INDUSTRY	2 cr.
PWR 156	ELECTRICAL SYSTEM TROUBLE SHOOTING	2 cr.
PWR 199	COOPERATIVE WORK EXPERIENCE (3 credits required)	1-6 cr.

Total Required Credits: 49-50

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Power Utilities Technology - Estimator/Engineering Technician (AAT)

General Education Requirements

Computational Skills (5 credits required)

CTEC 121	INTRO TO PROGRAMMING & PROBLEM SOLVING	5 cr.
Communication	Skills (5 credits required)	
ENGL 135	INTRODUCTION TO TECHNICAL WRITING	5 cr.
Human Relation	ns (5 credits required)	
MGMT 100	THE BUSINESS ENVIRONMENT	5 cr.
Major Area	Requirements	
BTEC 149	COMPUTER APPLICATIONS ESSENTIALS	3 cr.
CADD 130	BASIC MICROSTATION	4 cr.
CADD 140	BASIC AUTOCAD	4 cr.
CADD 143	CIVIL DRAFTING 1 WITH AUTOCAD	4 cr.
CADD 230	CIVIL DRAFTING 2	3 cr.
CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.
CNST 108	JOB ESTIMATING AND SCHEDULING	3 cr.
HLTH 120	ADULT CPR AND FIRST AID	1 cr.
ITEL 071	BASIC NATIONAL ELECTRICAL CODE	3 cr.
ITEL 072	BASIC NATIONAL ELECTRICAL CODE	3 cr.
MATH 095	INTERMEDIATE ALGEBRA	5 cr.

^{*} MATH 090, Elementary Algebra and ENGL 098, Writing Fundamentals are prerequisites for PWR 101, Basic Electrical Concepts.

^{**} Or Current CPR/First Aid Card.

MATH 098	TECHNICAL MATHEMATICS I	3 cr.
MATH 099	TECHNICAL MATHEMATICS II	3 cr.
MGMT 126	PROJECT MANAGEMENT	3 cr.
PWR 101	BASIC ELECTRICAL CONCEPTS	7 cr.
PWR 150	CAREER EXPLORATION FOR THE POWER UTILITIES	1 cr.
PWR 151	INTRODUCTION TO THE POWER UTILITIES INDUSTRY	7 cr.
PWR 152	TOOLS OF THE TRADE	2 cr.
PWR 153	ELECTRICAL SAFETY	1 cr.
PWR 154	ELECTRICAL SYSTEM COMPONENTS	7 cr.
PWR 155	PRINT READING FOR THE UTILITY INDUSTRY	2 cr.
PWR 156	ELECTRICAL SYSTEM TROUBLE SHOOTING	2 cr.
SURV 125	INTRODUCTION TO GIS	3 cr.

Total Required Credits: 97

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Surveying & Geomatics

Degree Requirements

The Surveying and Geomatics program is designed to meet entry-level field and office skills in a variety of land surveying and geomatics occupations. Training will utilize precision electronic surveying instruments, including Global Positioning System equipment and sophisticated computerized drafting, mapping, design, and analysis software.

An Associate in Applied Science degree will be awarded upon successful completion of the course requirements. All core and general education list requirements must be met, with any additional credits to be selected as electives. Students are encouraged to complete basic skills at the beginning of their education. Refer to the Degree & Certificate Requirements Section of the Clark College Catalog to identify the courses needed to satisfy the General Education Requirements.

Full-time students seeking an Associate in Applied Science degree typically complete this program in a minimum of six quarters, if basic skills and prerequisites are complete. Students interested in pursuing a baccalaureate degree in a Surveying or GIS field, a formal articulation agreement between Clark College and the Oregon Institute of Technology in Klamath Falls, Oregon is in place. Please consult with an advisor for additional requirements regarding this specific educational path.

Student Preparation

It is recommended that students prepare for entrance into the program by emphasizing mathematics and science in high school. Two years of algebra and one year each of geometry, trigonometry, and physics are desirable prerequisites.

Career Opportunities

Completion of this program prepares students for work as Surveying Technicians and can lead to a career as a Professional Land Surveyor. The employment forecast for graduates in this field are exceptional. As increasing number of licensed surveyors across the nation retire, a personnel shortage has been created within this profession.

Surveying & Geomatics (AAS)

General Education Requirements

Communication S	Skills (6 credits required)	
CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.
ENGL 135	INTRODUCTION TO TECHNICAL WRITING	5 cr.
Health & Physical	Education (3 credits required)	
HPE 220	INDUSTRIAL HEALTH AND FITNESS	3 cr.
Computational S	kills (3 credits required)	
MATH 103	COLLEGE TRIGONOMETRY	5 cr.
Human Relations	(3 credits required)	
CMST& 210	INTERPERSONAL COMMUNICATION	5 cr.
Humanities (3 cre	edits required)	
Social Sciences (3	3 credits required)	
Natural Sciences	(3 credits required)	
PHSC 101	GENERAL PHYSICAL SCIENCE (Recommended)	5 cr.
Major Aroa P	aguiromonts	
	equirements	2 av
BTEC 169	INTRODUCTION TO EXCEL	3 cr.
CADD 140	BASIC AUTOCAD (or equivalent) CIVIL DRAFTING 1 WITH AUTOCAD	4 cr.
CADD 143 MATH 111		4 cr.
MATH& 151	CALCULUS L(or bigber)	5 cr.
	CALCULUS I (or higher) INTRODUCTION TO GPS	5 cr.
SURV 100 SURV 102	FUNDAMENTALS OF SURVEY	2 cr.
-		2 cr.
SURV 104	APPLIED MATH FOR SURVEYING	5 cr.
SURV 121 or ENGR 121	FIELD SURVEY!	5 cr.
	FIELD SURVEY I	5 cr.
SURV 122	FIELD SURVEY II SURVEY TECHNOLOGY SEMINAR	5 cr.
SURV 123 SURV 125	INTRODUCTION TO GIS	2 cr.
SURV 163	ROUTE SURVEYING	3 cr.
SURV 199	CO-OP WORK EXPERIENCE	5 cr. 1-5 cr.
SURV 202	BOUNDARY SURVEYS	
-		4 cr.
SURV 203	LEGAL DESCRIPTIONS BOUNDARY LAW I	3 cr.
SURV 225		3 cr.
SURV 250	SUBDIVISION PLANNING A & PLATTING	3 cr.
SURV 250	ARC GIS I	4 cr.
SURV 264	SURVEY SOFTWARE APPLICATIONS	3 cr.

Total Required Credits: 91

Welding Technology

The Welding Technology program prepares students for entry-level welder employment in production, job shop, or maintenance positions. Students master basic and advanced welding skills while operating industry-quality, state-of-the-art equipment.

The Welding program can be completed in nine months (fall, winter, and spring quarters), one year or two years, depending on the certificate or degree desired. Career-upgrade certificate classes are also offered. American Welding Society welder certification is available to students enrolled in welding classes.

Placement test (COMPASS) is not required for program entrance. Students can pursue six Welding Technology programs, depending on their needs and career goals:

Welding Only Programs:

Nine-Month Program 86 credits

Certificates of Completion 4-13 credits

Certificates of Achievement 12-43 credits

Academic Programs (include General Education Requirements):

Certificate of Proficiency 95 credits

Associate in Applied Science Degree 107-110 credits

Associate in Applied Technology Degree 101 credits

Refer to the Degree & Certificate Requirements Section of the Clark College Catalog to identify the courses needed to satisfy the General Education Requirements.

Welding Skills (CA)

Please consult the Welding Department for more information about short-term certificates in Welding.

Welding Technology - SMAW Arc Welding/Oxy Fuel Processes (CA)

Major Area Requirements

WELD 110	WELDING BLUEPRINT READING	4 cr.
or WELD 235	ELEMENTARY METALLURGY	2 cr.
WELD 236	ELEMENTARY METALLURGY LAB	2 cr.
and WELD 111	INTRODUCTION TO WELDING INDUSTRY	3 cr.
WELD 112	OXY-ACETYLENE AND SHIELDED METAL ARC LAB	10 cr.
WELD 113	SHIELDED METAL ARC WELDING THEORY I	3 cr.
WELD 114	SHIELDED METAL ARC WELDING LAB I	10 cr.
WELD 115	SHEILDED METAL ARC WELDING THEORY II	3 cr.
WELD 116	SHIELDED METAL ARC WELDING LAB II	10 cr.

Total Required Credits: 43

Welding Technology - Evening Classes SMAW/Wirefeed/TIG/ Oxyfuel Processes (CA)

Major Area Requirements

WELD 117	ARC/OXY FUEL WELDING	6 cr.

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		Total Required Credits: 18
WELD 119	WIRE FEED AND TIG WELDING II	6 cr.
WELD 118	WIRE FEED AND TIG WELDING I	6 cr.

Total Required Credits: 18

Welding Technology - Welded Sculpture and Fabrication Techniques (CA)

Major Area Requirements

WELD 120	WELDED SCULPTURE LAB I	3 cr.
ART 295	WELDED SCULPTURE THEORY I	1 cr.
WELD 121	WELDING SCULPTURE LAB II	3 cr.
ART 296	WELDED SCULPTURE THEORY II	1 cr.
WELD 122	WELDED SCULPTURE LAB III	3 cr.
ART 297	WELDED SCULPTURE THEORY III	1 cr.

Total Required Credits: 12

Welding Technology - Gas Tungsten Arc Welding (CA)

Major Area Requirements

WELD 110	WELDING BLUEPRINT READING	4 cr.
or WELD 235	ELEMENTARY METALLURGY	2 cr.
WELD 236	ELEMENTARY METALLURGY LAB	2 cr.
and WELD 221	GAS TUNGSTEN ARC WELDING	3 cr.
WELD 222	GAS TUNGSTEN ARC WELDING LAB	10 cr.

Total Required Credits: 17

Welding Technology - Wirefeed/Advanced Arc Welding Processes (CA)

Major Area Requirements

WELD 110	WELDING BLUEPRINT READING	4 cr.
or WELD 235	ELEMENTARY METALLURGY	2 cr.
WELD 236	ELEMENTARY METALLURGY LAB	2 cr.
and WELD 223	SEMI-AUTOMATIC WELDING	3 cr.
WELD 224	SEMI-AUTOMATIC WELDING LAB	10 cr.
WELD 225	SPECIAL WELDING PROCESSES	3 cr.
WELD 226	PRODUCTION WELDING PROCESSES	10 cr.

Total Required Credits: 30

Welding Technology (CP)

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General Education Requirements

Communication Skills (3 credits required)

Computational Skills (3 credits required)

Human Relations (3 credits required)

Major Area Requirements

WELD 110	WELDING BLUEPRINT READING	4 cr.
WELD 111	INTRODUCTION TO WELDING INDUSTRY	3 cr.
WELD 112	OXY-ACETYLENE AND SHIELDED METAL ARC LAB	10 cr.
WELD 113	SHIELDED METAL ARC WELDING THEORY I	3 cr.
WELD 114	SHIELDED METAL ARC WELDING LAB I	10 cr.
WELD 115	SHEILDED METAL ARC WELDING THEORY II	3 cr.
WELD 116	SHIELDED METAL ARC WELDING LAB II	10 cr.
WELD 221	GAS TUNGSTEN ARC WELDING	3 cr.
WELD 222	GAS TUNGSTEN ARC WELDING LAB	10 cr.
WELD 223	SEMI-AUTOMATIC WELDING	3 cr.
WELD 224	SEMI-AUTOMATIC WELDING LAB	10 cr.
WELD 225	SPECIAL WELDING PROCESSES	3 cr.
WELD 226	PRODUCTION WELDING PROCESSES	10 cr.
WELD 235	ELEMENTARY METALLURGY	2 cr.
WELD 236	ELEMENTARY METALLURGY LAB	2 cr.

Total Required Credits: 95

Welding Technology (AAS)

In addition to completing all Major Area Requirement courses for the Certificate of Proficiency, students must also complete the following General Education Requirements:

General Education Requirements

Communication Skills (6 credits required)

Health & Physical Education (3 credits required)

Computational Skills (3 credits required)

Human Relations (3 credits required)

Humanities (3 credits required)

Social Sciences (3 credits required)

Natural Sciences (3 credits required)

Major Area Requirements

WELD 110	WELDING BLUEPRINT READING	
WELD 111	INTRODUCTION TO WELDING INDUSTRY	3 cr.
WELD 112	OXY-ACETYLENE AND SHIELDED METAL ARC LAB	10 cr.

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WELD 113	SHIELDED METAL ARC WELDING THEORY I	3 cr.
WELD 114	SHIELDED METAL ARC WELDING LAB I	10 cr.
WELD 115	SHEILDED METAL ARC WELDING THEORY II	3 cr.
WELD 116	SHIELDED METAL ARC WELDING LAB II	10 cr.
WELD 221	GAS TUNGSTEN ARC WELDING	3 cr.
WELD 222	GAS TUNGSTEN ARC WELDING LAB	10 cr.
WELD 223	SEMI-AUTOMATIC WELDING	3 cr.
WELD 224	SEMI-AUTOMATIC WELDING LAB	10 cr.
WELD 225	SPECIAL WELDING PROCESSES	3 cr.
WELD 226	PRODUCTION WELDING PROCESSES	10 cr.
WELD 235	ELEMENTARY METALLURGY	2 cr.
WELD 236	ELEMENTARY METALLURGY LAB	2 cr.
	_	

Total Required Credits: 107-110

Welding Technology (AAT)

General Education Requirements

Computational Skills (5 credits required)

Communication Skills (5 credits required)

Human Relations (5 credits required)

Major Area Requirements

WELD 110	WELDING BLUEPRINT READING	4 cr.
WELD 111	INTRODUCTION TO WELDING INDUSTRY	3 cr.
WELD 112	OXY-ACETYLENE AND SHIELDED METAL ARC LAB	10 cr.
WELD 113	SHIELDED METAL ARC WELDING THEORY I	3 cr.
WELD 114	SHIELDED METAL ARC WELDING LAB I	10 cr.
WELD 115	SHEILDED METAL ARC WELDING THEORY II	3 cr.
WELD 116	SHIELDED METAL ARC WELDING LAB II	10 cr.
WELD 221	GAS TUNGSTEN ARC WELDING	3 cr.
WELD 222	GAS TUNGSTEN ARC WELDING LAB	10 cr.
WELD 223	SEMI-AUTOMATIC WELDING	3 cr.
WELD 224	SEMI-AUTOMATIC WELDING LAB	10 cr.
WELD 225	SPECIAL WELDING PROCESSES	3 cr.
WELD 226	PRODUCTION WELDING PROCESSES	10 cr.
WELD 235	ELEMENTARY METALLURGY	2 cr.
WELD 236	ELEMENTARY METALLURGY LAB	2 cr.

Total Required Credits: 101

Women's Studies Certificate

Women's Studies is an interdisciplinary field that identifies gender as one of the central organizing principles of human experience. Grounded in feminist theory and centered around feminist scholarship, Women's Studies confronts and challenges institutional, individual and ideological systems of power, privilege and inequality. Women's Studies analyzes socially constructed power imbalances based on gender, race, class, sexual identity, ability, age and other differences, allowing students profound insights into the origins of their own experience.

Because Women's Studies seeks to understand how our gendered experience affects every aspect of our lives, course topics may include: gender socialization, family, work, politics, health, sexuality, body image, violence, spirituality, art and culture. We may also discuss feminists' roles in social justice movements of the past as well as current and future trends in scholarship and activism.

Since other aspects of identity influence how individuals understand gender, we can't assume we all share the same experiences. Women's Studies creates opportunities to understand how and why we assign value to our differences and suggests strategies for resisting the power imbalances that result. By acknowledging that we don't have to be the same to be equal, Women's Studies provides a platform for exploring our differences as a potential source of strength rather than only a source of conflict. Students are encouraged to explore their relationship to individual and institutional power and to make visible the social and political forces at work. What advantages and obstacles do we each experience as a result of our socially constructed identities? Whose experience is understood as "normal" and why might it matter? What individual and communal action can we take?

Women's Studies students learn new and exciting ways to interpret the world around them, and their place within it. Most students find that their worldview undergoes profound changes as a result of taking a Women's Studies class. What new things will you notice?

Are you ready to:

- Think critically
- View popular culture in ways you've never imagined
- Gain a new self-awareness
- Transform your interpersonal relationships
- Confront our shared legacy of privilege and oppression
- Take action!

If so, Women's Studies at Clark College is ready to help you take that next step...

Women's Studies (CERT)

For students who want expertise in women's issues, this certificate may be earned along with a regular A.A. degree, and will be awarded upon graduation.

Core Courses (13 credits)

WS 101	INTRODUCTION TO WOMEN'S STUDIES	
WS 201	WOMEN AROUND THE WORLD	3 cr.
WS 220	RACE, CLASS, GENDER AND SEXUALITY	5 cr.

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Women's Studies Electives (3 credits)

WS 210	WOMEN'S CULTURE	3 cr.
WS 280	SELECTED TOPICS	1-3 cr.
WS 290	SPECIAL PROJECTS	1-5 cr.

Additional Electives (6-8 credits)

Electives must be chosen from at least two disciplines.

ART 250	WOMEN IN ART	5 cr.
ENGL 140	WOMEN IN LITERATURE	3 cr.
HIST& 215	WOMEN IN U.S. HISTORY	5 cr.
HIST 251	WOMEN IN HIST-PREHISTORY THRU FALL OF ROME	3 cr.
HIST 252	WOMEN IN HIST-MIDDLE AGES THRU PRE-INDUST AGE	3 cr.
HIST 253	WOMEN IN HISTORY-INDUST AGE TO MODERN TIMES	3 cr.
HLTH 207	WOMEN'S HEALTH	2 cr.
SOC 230	DOMESTIC VIOLENCE	5 cr.

Total Required Credits: 22-24

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World Languages (Transfer)

Language proficiency is an important skill for more and more Americans who must compete professionally in a global economy. It is a marketable skill in such diverse fields as medicine, government, science, technology, banking, trade, industry, communications, teaching, and social work. Clark College language students apply their skills not only to employment but also to upper-division transfer studies at four-year universities.

Classes emphasize learning strategies that are necessary to communicate in the real world. Language clubs provide active support and opportunities for using the language ranging from film series and round-table discussion groups to field trips and cultural presentations.

Program Options

Students who intend to major in a world language at a four-year institution should consider two years of study in one language. Clark offers two-year programs (elementary, intermediate) in three areas:

German

Spanish

Japanese

And one-year programs in:

American Sign Language

French

Summer Study Abroad for Language Students

The departments provide the following language and cultural opportunities:

- French Study Abroad opportunity
- German immersion/study every summer with the German Studies in Berlin program
- Spanish immersion/study at the University of Valladolid in Valladolid, Spain
- Japanese immersion/study at Tokyo Institute of Japanese in Tokyo and visiting Kyoto and Joyo

Other Study Abroad

Clark College is a member of the Washington Community College Consortium for Study Abroad (WCCCSA), which offers quarter-long programs in London, England; Paris, France; Florence, Italy; and Alajuela, Costa Rica. Contact an advisor in the International Center for more information.

SECTION D: Course Descriptions

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Accounting

PRINCIPLES OF ACCOUNTING I

ACCT& 201 Fall Winter 5 Credits

55 hours of lecture

Accounting theory and practice including the entire accounting cycle and accounting for merchandising operations, receivables, current liabilities, and payroll. Formerly BUS 231. Credit not allowed for both BUS 231 and ACCT& 201. Prerequisite: Eligibility for ENGL& 101 and MATH 095 or consent of Instructional Unit. [SE]

PRINCIPLES OF ACCOUNTING II

ACCT& 202 Winter Spring 5 Credits

55 hours of lecture

Continuation of ACCT& 201 with emphasis on payroll, partnership and corporation accounting, statement of cash flow, analysis and interpretation of financial statements, plant assets, depreciation, time value of money, long-term liabilities, and investments. Formerly BUS 232. Credit not allowed for both BUS 232 and ACCT& 202. Prerequisite: A grade of "C" or better in ACCT& 201. [SE]

PRIN OF ACCOUNTING III

ACCT& 203 Fall Spring 5 Credits

55 hours of lecture

Continuation of ACCT& 201 with emphasis on responsibility and departmental accounting, manufacturing operations, cost accounting, budgeting and standard costs, cost-volume-profit analysis, incremental analysis and capital budgeting. Prerequisite: A grade of "C" or better in ACCT& 201. Formerly BUS 233. [SE]

Addiction Counselor Education

SURVEY OF ADDICTIONOLOGY

ACED 101 3 Credits

33 hours of lecture

Biological, psychological, and sociological theories of the use of major drugs of abuse, as well as addictive behaviors. Explores the distinction between use, abuse and addiction. For majors and non-majors. Prerequisite: ENGL& 101 (or ENGL 101). [GE]

INTRODUCTION TO ADDICTIONOLOGY

ACED 105 5 Credits

55 hours of lecture

Basic theories course: effects on the body, diagnosis, treatment, and prevention of substance abuse. Emphasis on alcohol abuse and related problems in individuals and society. [GE]

INTRODUCTION TO ADDICTIONS COUNSELING SKILLS

ACED 122 Fall 3 Credits

33 hours of lecture

Application of basic counseling theories, including relapse prevention to an addiction client population. Group, individual and family counseling. Other cultures also addressed. Prerequisite: ACED 101 or CDEP 101, or consent of Instructional Unit. [GE]

GROUP COUNSELING IN ADDICTIONS

ACED 125 Winter 3 Credits

33 hours of lecture

Use of group process for modifying individual attitudes and actions. Application of group counseling theories to an addiction client population. Prerequisite: ACED 201 or CDEP 120/201, or consent of Instructional Unit. [GE]

INTRODUCTION TO COUNSELING FAMILY MEMBERS

ACED 132 3 Credits

33 hours of lecture

Knowledge and skills for working with significant persons in the addicted client's environment. Emphasis on counseling immediate family members. Prerequisite: ACED 201 or CDEP 201 (or 120). [GE]

LAW AND ETHICS IN ADDICTIONS COUNSELING

ACED 136 Winter 3 Credits

33 hours of lecture

Examination of state and federal laws governing the addictions field, including the Washington Administrative Code for CDP's. Legal and ethical duties in the client-counselor relationship. Prerequisite: ACED 101 or CDEP 101, or consent of Instructional Unit. [GE]

ADDICTIONS AND MENTAL ILLNESS

ACED 137 Fall 3 Credits

33 hours of lecture

Differential and dual diagnosis. Use of current edition of Diagnostic and Statistical Manual. Referral and networking with mental health professional; relapse prevention techniques; screening that includes comorbidity. Prerequisite: ACED 101 or CDEP 101 or consent of Instructional Unit. [GE]

PREVENTION AND EDUCATION IN THE COMMUNITY

ACED 138 3 Credits

33 hours of lecture

Application of the Public Health and Social Development models to prevention activities. Knowledge of community resources in developing community education and prevention programs. Prerequisite: ACED 101 or CDEP 101 or consent of Instructional Unit. [GE]

PHARMACOLOGY OF DRUGS OF ABUSE

ACED 160 3 Credits

33 hours of lecture

Pharmacological effects of alcohol and drugs on the human body and mind. Prerequisite: ENGL& 101 (or ENGL 101). [GE]

ADOLESCENT ADDICTION ASSESSMENT & TREATMENT

ACED 164 Fall 3 Credits

33 hours of lecture

An examination of adolescent development and the detrimental impact of addiction on youth development. The assessment process and treatment modalities for adolescents are presented. Prerequisite: ACED 101 and 122, or CDEP 101 and 122 or consent of Instructional Unit. [GE]

AIR- AND BLOOD-BORNE PATHOGENS

ACED 170 2 Credits

22 hours of lecture

Skills to reduce impact of air- and blood-borne pathogens on addiction clients. HIV/AIDS brief risk intervention for the addiction client population. Community resources available to clients. [GE]

THEORIES OF COUNSELING

ACED 201 3 Credits

33 hours of lecture

Introduces the major counseling theories and techniques focusing on individual counseling within a Human Services framework. Students are encouraged to develop a counseling orientation based on these theories which include their own personal and professional ethical orientation. For majors and non-majors. Prerequisite: ACED 101 or CDEP 101 and PSYC 101, or consent of Instructional Unit. [GE]

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MULTI-CULTURAL ADDICTIONS COUNSELING

ACED 202 3 Credits

33 hours of lecture

Culturally learned assumptions that shape a counseling interview. Culture as the heart of any counseling relationship. The impact of culture on treatment planning with an addiction client population. Prerequisite: ACED 122 or CDEP 122 and ACED 201 or CDEP 120/201. [GE]

CASE MANAGEMENT IN ADDICTION MEDICINE

ACED 203 3 Credits

33 hours of lecture

Requirements for managing cases in treatment clinics: treatment and aftercare plans, notes, testing, preparation of accurate reports and other documents, confidentiality, and advocacy. ASAM criteria and treatment. Prerequisite: ACED 201 or CDEP 120/201, and ACED 122 or CDEP 122, or consent of Instructional Unit. [GE]

ADVANCED TECHNIQUES FOR ADDICTION COUNSEL

ACED 205 3 Credits

33 hours of lecture

Development of skills needed to establish and maintain effective helping relationships with clients. Integration of relapse prevention counseling in treatment. Prerequisite: ACED 101 or CDEP 101, ACED 201 or CDEP 120/201, ACED 122 or CDEP 122. [GE]

FIELD PLACEMENT I

ACED 210 Fall Winter Spring 6 Credits

Twenty hours weekly of on-the-job supervised experience applying counseling theories and practices. Addiction Counselor Competencies are used as a framework for assessment. Prerequisite: 30 hours of ACED or CDEP courses including ACED 136 or CDEP 135 and consent of instructor's permission. [GE]

FIELD PLACEMENT II

ACED 211 Fall Winter Spring 6 Credits

Twenty hours weekly of on-the-job supervised experience. Applying counseling theories and practices. Addiction Counselor Competencies will be used as a framework for assessment. Prerequisite: Grade of "C" or better in ACED 210 or CDEP 210 and instructor's permission. [GE]

SELECTED TOPICS

ACED 280 1 – 3 Credits

33 hours of lecture

Special topics in chemical dependence as listed in the quarterly class schedule. May be repeated for credit. Prerequisite: ENGL 101. [GE]

SPECIAL PROJECTS

ACED 290 1 – 5 Credits

Opportunity to plan, organize, and complete special projects approved by the instructional unit. Prerequisite: Consent of Instructional Unit. [GE]

Adult Basic Education

EDUCATIONAL INTERVIEWING

ABE 002 Summer Fall Winter Spring 1 – 1 Credit

11 hours of lecture

REGISTER IN CLASS. Pretesting, assessment, and placement for ABE/GED prep classes. At the conclusion, students will have been assessed in the basic skills of reading, writing and mathematics. THIS COURSE IS A PRE-REQUISITE TO REGISTRATION IN ALL ABE/GED CLASSES. Students for whom English is not a native language, demonstrated competency at or above ESL level 5 is required.

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EDUCATIONAL INTERVIEWING

ABE 003 Summer Fall Winter Spring 1 – 3 Credits

33 hours of lecture

An intake class that assesses new students in basic skills levels and learning styles, identifies barriers to student success, and helps student understand Clark College and Basic Education.

ABE I-BEST EDUCATIONAL INTERVIEWING

ABE 004 Summer Fall Winter Spring 1 Credit

11 hours of lecture

Assessment of new students in basic skills levels and learning styles. Topics include identifying barriers to student success, and helping students understand Clark College and I-BEST integrated instruction programs.

ADULT BASIC EDUCATION SPECIAL TOPICS

ABE 005 1 – 10 Credits

88 hours of lecture 44 hours of lab

Monthly seminars conducted by various college and local professionals for the purpose of enhancing the social, personal, and academic skills of the ABE student participant.

ABE PROJECT BASED LEARNING

ABE 006 Summer Fall Winter Spring 6 Credits

66 hours of lecture

Developing Basic Skills in mathematics, science, social studies, reading, and writing, based on the Washington State Learning Standards, while learning in a multi-level, multi-subject classroom explore real-world problems and challenges. Focus on developing confidence and self-direction with both team-based and independent work and understanding the social and professional skills necessary for working in the field, such as interacting in working groups, making compromises, and being dependable. Prerequisites: ABE Educational Interviewing.

ABE WRITING FUNDAMENTALS A

ABE 012 Summer Fall Winter Spring 1 – 6 Credits 66 hours of lecture

Practice writing simple, compound and some complex sentences to accomplish life purposes in structured writing activities in a range of familiar settings. Practice organizing information and sentences with correct word order to complete simple forms, notes, letters, and paragraphs. Practice spelling common everyday and significant personal words and using correct capitalization, punctuation, and subject-verb agreement for simple verb tenses. Practice proofreading and editing writing using writing aids, (checklists, dictionaries, etc.). Prerequisite: Appropriate CA-SAS score.

ABE WRITING FUNDAMENTALS B

ABE 014 Summer Fall Winter Spring 1 – 6 Credits

66 hours of lecture

Practice writing one to five understandable and well-constructed paragraphs easily and with few errors to independently accomplish well-defined and structured writing activities for varied reasons (such as for personal expression, to inform, to persuade or to complete a task) and for audiences in a range of comfortable and familiar settings.

ADULT BASIC EDUCATION MATH I

ABE 021 Summer Fall Winter Spring 1 – 6 Credits

66 hours of lecture

Practice recalling and using a few simple mathematical procedures such as very basic estimating, counting, sorting, ordering, grouping, adding and subtracting numbers up to three digits, and beginning multiplication of 2s, 5s, and 10s. Practice reading, writing, and interpreting simple benchmark fractions (1/2, 1/4), common monetary values, mathematical relationships (more, less, etc.), high frequency measurement (months, days, etc.), concepts of length and width, interpret simple charts and graphs, and communicate solutions to math tasks. Prerequisite: Entry level students with appropriate scaled CASAS placement scores.

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ADULT BASIC EDUCATION MATH II

ABE 022 Summer Fall Winter Spring

66 hours of lecture

Building skills for evaluating solutions, adding and subtracting whole numbers through three digits, multiplying and dividing three digits numbers by one digit numbers, recall/use mathematical procedures such as estimating, counting, sorting, grouping, and measuring length and weight using calibrated instruments (rulers, scales). Practice reading, writing, and interpreting simple benchmark fractions and percents (1/2, 1/4, 50%), common monetary values, simple proportions (2:1), very simple data in charts and graphs, and communicate solutions to math related tasks. Prerequisite: ABE MATH 021 or appropriate scaled CASAS placement score.

ADULT BASIC EDUCATION MATHEMATICS III

ABE 023 Summer Fall Winter Spring 1 - 6 Credits

1 - 6 Credits

66 hours of lecture

Building skills to read, write, interpret, and use mathematical information and procedures for life purposes. Concepts and skills include: computing with whole numbers; converting and using benchmark fractions, decimals and percents (halves, quarters, tenths); determining simple patterns and proportions (4:1, etc); grouping, comparing, estimating numbers; using calibrated tools with benchmark units to measure; determining the area of common geometric shapes; selecting and organizing data into simple graphic arrangements; and communicating problemsolving strategies. Prerequisite: ABE MATH 022 or appropriate CASAS placement score.

ADULT BASIC EDUCATION MATHEMATICS IV

ABE 024 Summer Fall Winter Spring 1 - 6 Credits

66 hours of lecture

Building skills to read, write, interpret, and apply a variety of mathematical information such as the following: monetary values, extensions of benchmark fractions (1/8, 1/3, 1/5, etc.), decimals, and percents (15%, 30%, etc.), patterns and simple formulas (such as d=rt, A=lw), standard units of measurement including fractional units and benchmark angle measurements (90 degrees, 360 degrees, etc), geometric shapes, a combination of common shapes, concept of pi, converting between units of measurement, and ways to interpret and represent data (graphs). Prerequisite: ABE MATH 023 or appropriate CASAS placement score.

ABE READING FUNDAMENTALS A

ARF 032 Summer Fall Winter Spring

66 hours of lecture

Building skills in the four components of skilled reading: alphabetics, vocabulary, fluency, and comprehension. Students will recognize common everyday words and practice print-sound correspondence to decode simple texts. Developing simple strategies to increase vocabulary. Activities include reading simple texts accurately with appropriate phrasing and rates; practicing comprehension strategies to understand simplified informational and literary texts and connect the knowledge to personal experiences. Prerequisite: Appropriate CASAS score.

ABE READING FUNDAMENTALS B

ABF 034 Summer Fall Winter Spring

1 - 2 Credits

66 hours of lecture

Developing skills in the 4 components of skilled reading: alphabetics, vocabulary, fluency, and comprehension. Skills include decoding and recognizing common syllable patterns and developing strategies to increase vocabulary. Activities include reading intermediate texts accurately with appropriate phrasing and rates; practicing a variety of comprehension strategies for different reading purposes and various types of texts; analyzing and evaluating information in connection with previous knowledge in a range of informational and literary texts. Prerequisite: ABE 032 or appropriate CASAS score.

BASIC COMPUTER LITERACY AND KEYBOARDING

ABF 036 Summer Fall Winter Spring

44 hours of lab

Introduction to keyboarding development, computer terminology, use of software and word processing. Concurrent enrollment in ABE or ESL Level IV or above required.

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1 - 6 Credits

1 – 6 Credits

ABE LANGUAGE ARTS I

ABE 041 1 – 6 Credits

66 hours of lecture

Skills for decoding and recognizing all of the letters of the alphabet and everyday words and word groups in short, simple texts by breaking words into parts, and applying pronunciation rules (decoding letter-sound correspondence, isolating first and last sounds, etc.). Activities include appropriately using everyday, high frequency vocabulary to produce a few sentences on a familiar topic with minimal attention to audience, recalling prior knowledge to assist in understanding information in the text students read/write, and making a few simple edits of handwriting, spelling, punctuation, and capitalization based on review and feedback from others. Prerequisite: Appropriate CASAS scores.

ADULT BASIC EDUCATION LANGUAGE ARTS II

ABE 042 Summer Fall Winter Spring 6 Credits

66 hours of lecture

Skills for learning to decode and recognize common/some unfamiliar words in short text, for demonstrating familiarity with simple, everyday content knowledge and vocabulary, for locating important information in simplified text, and for monitoring/enhancing reading comprehension. Skills for determining the purpose and audience for student writing, for following a highly-structured plan to organize ideas in order to support a single purpose and for producing a legible and comprehensible draft. Skills for appropriately using familiar vocabulary, and demonstrating beginning attention to revision strategies in order to make basic edits of grammar and syntax based on feedback from others. Prerequisite: ABE Language Arts II requires Language Arts I completion or the appropriate CASAS reading score upon entrance to the program.

ADULT BASIC EDUCATION LANGUAGE ARTS III

ABE 043 Summer Fall Winter Spring 1 – 6 Credits 66 hours of lecture

Practice writing simple, compound, and some complex sentences to construct simple paragraphs to accomplish well-defined and structured writing activities for varied life purposes. Skills for simple planning and editing strategies including generating and organizing ideas and proofreading for simple writing conventions in grammar, spelling, punctuation, and sentence structure. Skills for reading and comprehending most everyday words and some specialized vocabulary, adjust their reading pace, and use various comprehension strategies to accomplish well-defined activities in short to medium length texts in literature, science, and social studies. Prerequisite: Completion of Language Arts 042 or the appropriate reading/writing score on entrance to the program.

ADULT BASIC EDUCATION LANGUAGE ARTS IV

ABE 044 Summer Fall Winter Spring 1 – 6 Credits

66 hours of lecture

Practicing the steps in writing a few well-constructed and connected paragraphs to independently accomplish well-defined and structured writing activities for varied purposes. Practicing multiple writing and pre-writing strategies with everyday and specialized vocabulary in science, social studies, and literature. Practicing revision and editing strategies which include mechanics, grammar, and usage. Practice reading and comprehending a variety of texts to establish an appropriate pace and good comprehension for reading and writing in science, social studies, and literature. Prerequisite: Completion of Language Arts 043 or the appropriate reading/writing score on entrance to the program.

I-BEST SUPPORT

ABE 071 Summer Fall Winter Spring 1 – 6 Credits

66 hours of lecture

Additional instruction and support for student success in I-BEST designated classes. Review of important concepts and vocabulary introduced during I-BEST classes. Skills to communicate clearly and accurately using vocabulary and expressions commonly used in the I-BEST work place and job search environment. Activities to strengthen basic skills while studying in an I-BEST program. Students must be concurrently enrolled in an I-BEST designated class. Prerequisite: Admission into an I-BEST program.

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Agriculture

COMPUTERS IN HORTICULTURE

AG 086 Fall Winter Spring 3 Credits

11 hours of lecture 44 hours of lab

Introduction to a wide variety of computer software and how it relates to site planning and other areas within the horticulture field. Students learn how to use the software through the research and knowledge gained from field studies, speakers, and/or visits to local city and county offices. Skills learned in this class help the student make logical decisions when designing a landscape and in using computer technology available to them.

PLANT IDENTIFICATION

AG 106 Spring 5 Credits

44 hours of lecture 22 hours of lab

Practice and methods used by florists in house plant care and identification. Common names of plants sold in retail flower shops and greenhouses. Planting dish gardens and terrariums. [GE]

FIELD STUDIES IN HORTICULTURE

AG 108 Fall Spring 1 – 4 Credits

11 hours of lecture 66 hours of lab

Design and maintenance of various gardens, examination of comprehensive plant collections. Prerequisite: AG 130 or consent of Instructional Unit. [GE]

INTRODUCTION TO HORTICULTURE

AG 130 Fall Winter Spring 5 Credits

44 hours of lecture 22 hours of lab

Vegetable and fruit crops, ornamentals, landscape and horticulture practices, controls, maintenance, basic plant science, growth and development. Field trips required. [GE]

DECIDUOUS LANDSCAPE PLANT IDENTIFICATION

AG 135 Fall 5 Credits

44 hours of lecture 22 hours of lab

Deciduous plant materials. Identification, environmental requirements, growth habits, usage, maintenance and basic problems of ornamental plant materials: trees, shrubs, vines and ground covers. [GE]

EVERGREEN LANDSCAPE PLANT IDENTIFICATION

AG 136 Winter 5 Credits

44 hours of lecture 22 hours of lab

Evergreen plant materials. Identification, environmental requirements, growth habits, usage, maintenance and basic problems of ornamental plant materials: trees, shrubs, vines and ground covers. Prerequisite: AG 135 or consent of Instructional Unit. [GE]

FLOWERING LANDSCAPE PLANTS

AG 137 Spring 5 Credits

44 hours of lecture 22 hours of lab

Identification, environmental requirements, growth habits, and landscape use of colorful local flowering trees and shrubs: rhododendrons and azaleas, popular annual and perennial flowers, flowering vines and ground covers. [GE]

PLANT PROPAGATION

AG 140 Fall 5 Credits

44 hours of lecture 22 hours of lab

Sexual and asexual plant reproduction. Seed and cutting production of foliage plants and woody ornamentals. Grafting techniques. Field trips required. Prerequisite: AG 130 or consent of Instructional Unit. [GE]

GREENHOUSE MANAGEMENT

AG 150 Winter 5 Credits

44 hours of lecture 22 hours of lab

Greenhouse management skills. Production of greenhouse potted flowering and foliage plants and winter bedding crops. Greenhouse design, materials, crop scheduling and environmental control. Field trips required. Prerequisite: AG 130 or consent of Instructional Unit. [GE]

NURSERY OPERATIONS

AG 155 Spring 5 Credits

44 hours of lecture 22 hours of lab

Buildings, growing structures, equipment, and operations in the wholesale and retail nursery business. Planning, planting schedules, growing and marketing of container and field-grown nursery stock and bedding plants. Students will operate a nursery. Field trips required. Prerequisite: AG 130 or consent of Instructional Unit. [GE]

ANIMAL SCIENCE

AG 175 5 Credits

44 hours of lecture 33 hours of lab

Introduction to biological concepts including cellular basis of life, growth and development, genetics, reproduction, nutrition, and disease. Topics will be introduced using domestic animals as examples. This course is intended for nonscience majors and fulfills laboratory science requirements. It is also appropriate for science majors considering related careers, such as veterinary medicine. Concurrent enrollment in lab. Credit not allowed for both BIOL 104 and AG/BIOL 175. [NS]

FRUIT AND VEGETABLE CROPS

AG 185 Spring 5 Credits

44 hours of lecture 22 hours of lab

Fruit and vegetable crops grown in Southwestern Washington. Standard varieties planting, environmental requirements, pests, cultural practices, harvesting, storage and marketing. Field trips may be required. Prerequisite: AG 130 or consent of Instructional Unit. [GE]

COOPERATIVE WORK EXPERIENCE

AG 199 Summer Fall Winter Spring

1 – 5 Credits

165 hours of clinical

Supervised work experience in landscaping, grounds maintenance, greenhouse production or nursery stock production, etc. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in HDEV 195, 198 or 200 required. Prerequisite: Consent of Instructional Unit. [GE]

SOILS

AG 200 Fall 5 Credits

44 hours of lecture 22 hours of lab

Properties of soils, their origin, development and classification. Application of soil management with appropriate laboratory experience. [GE]

TURF MANAGEMENT AND MAINTENANCE

AG 205 Winter 5 Credits

44 hours of lecture 22 hours of lab

Turf establishment for home lawns, golf course greens and parks. Seeding, sodding, disease, fertilizer programs, insect problems and controls and maintenance. Field trips may be required. [GE]

LANDSCAPE DESIGN

AG 210 5 Credits

44 hours of lecture 22 hours of lab

Planning and design of landscape materials in residential and commercial properties. Prerequisite: AG 135, 136, 137, or consent of Instructional Unit. [GE]

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COMPUTERIZED LANDSCAPE DESIGN

AG 211 Winter 5 Credits

33 hours of lecture 44 hours of lab

Introduction to Landscape Design using computer aided design programs, including Design Ware, PhotoShop and PowerPoint. Use of color, texture, direction, line and shape in the design process is also covered. Prerequisite: A grade of "C" or better in AG 086 or consent of Instructional Unit. [GE]

COMPUTERIZED LANDSCAPE DRAFTING

AG 212 Spring 5 Credits

33 hours of lecture 44 hours of lab

Introduction to computer-aided landscape drafting using LandCADD and/or AutoCAD software. Students learn basic landscape design principles in order to draft aerial views and incorporate irrigation systems. Topics include drafting techniques for base plans, site plans and landscape plans, as well as the ability to prepare presentations to show clients. Prerequisite: A grade of "C" or better in AG 086 or consent of Instructional Unit. [GE]

LANDSCAPE MAINTENANCE

AG 220 5 Credits

44 hours of lecture 22 hours of lab

Pruning, grooming, and maintaining landscape trees and shrubs. Cultural operations in annual and perennial flower beds and ground covers. Weed and pest control. Practices, care and use of pruning and hand tools. Business practices in maintenance operations and scheduling. Prerequisite: AG 135 or consent of Instructional Unit. [GE]

IRRIGATION MANAGEMENT

AG 240 Winter 5 Credits

44 hours of lecture 22 hours of lab

Installation and mechanization of irrigation systems for landscape of commercial and residential sites. Drip irrigation. Field trips may be required. Prerequisite: AG 130 or consent of Instructional Unit. [GE]

BACKFLOW PREVENTION IRRIGATION

AG 241 5 Credits

44 hours of lecture 22 hours of lab

Approved backflow protection, repair, maintenance, state plumbing codes, installation, test procedures, safety requirements, and upcoming events/knowledge. [GE]

LANDSCAPE INSTALLATION

AG 250 Spring 5 Credits

44 hours of lecture 22 hours of lab

Reading and interpreting landscape drawings, grading, leveling and soil preparation. Construction of decks, fences, walkways and other landscape features. Students will work on class and/or individual landscape projects. Field trips may be required. Prerequisite: AG 210 or consent of Instructional Unit. [GE]

TISSUE CULTURE

AG 255 Winter 2 Credits

11 hours of lecture 22 hours of lab

Introduction to tissue culturing: history and botanical basis for tissue culture, preparing media, and media formulas and tissue culture techniques. [GE]

ENVIRONMENTAL MANAGEMENT

AG 260 Fall Spring 5 Credits

44 hours of lecture 22 hours of lab

Identification of insects, diseases and miscellaneous pests and weeds in ornamentals, vegetable, fruit and greenhouse crops in Western Washington/Oregon. Controls for agricultural plant pests, insecticides, fungicides, herbicides, and soil fumigants. Preparation for public and commercial licenses. Current EPA standards, restrictions and regulations of chemical use. Prerequisite: AG 130 or consent of Instructional Unit. [GE]

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SELECTED TOPICS

AG 280 1 – 5 Credits

55 hours of lecture

Selected topics in agriculture. Topics vary and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit. Specific topics are listed in the quarterly class schedule.

SPECIAL PROJECTS

AG 290 Summer Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

American Sign Language

AM SIGN LANGUAGE I

ASL& 121 5 Credits

55 hours of lecture

Introduction to American Sign Language emphasizing instruction and practice in expressive and receptive ASL skills. Focus on basic vocabulary, grammar, and cultural aspects of the deaf community.

AM SIGN LANGUAGE II

ASL& 122 5 Credits

55 hours of lecture

Continuation of ASL I, developing skills for the student with a basic knowledge of ASL. Focus on grammar, idioms, vocabulary building, culture and language. Prerequisite: ASL& 121 or consent of the instructor.

AM SIGN LANGUAGE III

ASL& 123 5 Credits

55 hours of lecture

Continuation of ASL II, developing grammar and vocabulary skills, with emphasis on students expressive and receptive skills. Topics include abstract concepts of language and the deaf culture's values, attitudes, and community. Prerequisite: ASL& 122 or consent of the instructor.

AMERICAN SIGN LANGUAGE IV

ASL& 221 5 Credits

55 hours of lecture

First of the second-year sequence in studying the language of Deaf Americans. Topics include developing receptive and expressive skill and fluency; correct formation of signs, movement, rhythm, phrasing and clarity; vocabulary building; developing proficiency in ASL grammar. Students will develop a respect for ASL as a language, including acceptance and appreciation of its diverse regional and personal applications within its culture. Prerequisite: A grade of "C" or better in ASL& 123, demonstrated equivalent proficiency, or with permission of the instructor.

AMERICAN SIGN LANGUAGE V

ASL& 222 5 Credits

55 hours of lecture

Second of second-year sequence in studying the language of Deaf Americans. Topics include developing receptive and expressive skills in dialogue; applying ASL informal discourse styles; vocabulary building; developing proficiency in ASL grammar for recreation, social services, government and the workplace. Students will develop a respect for ASL as a language, including acceptance and appreciation of its diverse regional and personal applications within its culture. Prerequisite: A grade of "C" or better in ASL& 221, demonstrated equivalent proficiency, or with permission of the instructor.

AMERICAN SIGN LANGUAGE VI

ASL& 223 5 Credits

55 hours of lecture

Third of second-year sequence in studying the language of Deaf Americans. Continuing development of receptive

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and expressive skills and fluency. Emphasis on increasing vocabulary, classifier, phrases and grammatical usage with a decrease dependency on English syntax structure. Students will be able to initiate and converse in topics such as technical fields of work, college level academic subjects, politics, and religion with consistent grammatical accuracy with native ASL users. Prerequisite: A grade of "C" or better in ASL& 222, demonstrated equivalent proficiency, or with permission of the instructor.

Anthropology

INTRODUCTION TO ARCHAEOLOGY

ANTH& 204 Fall Winter Spring 5 Credits

55 hours of lecture

Study of ancient and prehistoric cultures of the world. Introduction to theories and techniques of archaeological investigation. Formerly ANTH 102. [SE,SS]

INTRODUCTION TO CULTURAL ANTHROPOLOGY

ANTH& 206 Fall Winter Spring 5 Credits

55 hours of lecture

The concept of culture, a study of cultures directed toward a broad understanding of how people view their world, cope with their environments, and organize their lives. Formerly ANTH 103. [SE, SS]

BIOANTHROPOLOGY

ANTH& 215 Fall Winter Spring 5 Credits

44 hours of lecture 22 hours of lab

The biological study of human beings and primates, past and present: human genetics, biological adaptation and variation, evolutionary principles, the primate order, human origins, and applied biological anthropology. Fulfills social science or laboratory science (lab) distribution credit. Formerly ANTH 101. [SE, SS, NS]

SELECTED TOPICS

ANTH 280 1 – 3 Credits

33 hours of lecture

Varying topics for anthropology as listed in the quarterly class schedule. May be repeated for credit. [SE]

SPECIAL PROJECTS

ANTH 290 Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize, and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [SE]

ARCHAEOLOGY FIELD SCHOOL

ANTH 299 Summer 9 Credits

11 hours of lecture 176 hours of lab

Archaeological fieldwork experience including: survey and controlled excavation methods, data recording and processing techniques, identification and recording of artifacts and features, limited archaeological laboratory methods, evaluation of the prehistoric human presence. Prerequisite: ANTH 102 and consent of Instructional Unit. [SE]

Art

DRAWING I

ART 103 Summer Fall Winter Spring 3 Credits 22 hours of lecture 22 hours of lab

Using line and shape effectively. Contour line and gesture. Emphasis on expressive content and accurate seeing. [HB, SE]

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DRAWING II

ART 104 Summer Winter Spring 3 Credits

22 hours of lecture 22 hours of lab

Continuation of ART 103. Analysis and control of value, texture and color using a variety of techniques and drawing materials. Emphasis on accurate seeing. Prerequisite: ART 103. [HB, SE]

DRAWING III

ART 105 3 Credits

22 hours of lecture 22 hours of lab

Continuation of ART 104. Creative, critical-analytical, and historic approaches to composition in a variety of media. Prerequisite: ART 104. [HB, SE]

CREATIVITY AND CONCEPT

ART 110 Fall Winter Spring 3 Credits

22 hours of lecture 22 hours of lab

Introduction to creativity, conceptual thinking, and visual problem solving for artists, designers and other creative professionals. Focus on strategies and methods for developing original ideas such as brainstorming, sketching, automatic writing, etc; then translating those ideas to visual form using a variety of media and techniques. Hands-on studio activities contextualized by theoretical readings and in-class discussions.

TWO-DIMENSIONAL DESIGN

ART 115 Fall Winter Spring 4 Credits

22 hours of lecture 44 hours of lab

Foundation art course working with line, shape, value, texture and the principles of spatial organization. May include designing with computers. [HB, SE]

COLOR THEORY AND DESIGN

ART 116 Winter Spring 4 Credits

22 hours of lecture 44 hours of lab

Continuation of ART 115. Color theory and the application of color to specific design problems. Includes designing with computers. Prerequisite: ART 115. [HB, SE]

THREE-DIMENSIONAL DESIGN

ART 117 Spring 4 Credits

22 hours of lecture 44 hours of lab

Introduction to sculptural design concepts including volume, space and scale. Explores a variety of media and construction techniques, with a focus on creative problem solving in the context of sculptural objects. [HB, SE]

TIME-BASED ART AND DESIGN

ART 118 Fall Winter Spring 3 Credits

22 hours of lecture 22 hours of lab

Introduction of concepts and tools for the design of art to explore the transaction between people, objects and situations over time. Exploring the personal, cultural, formal, political, and historical aspects of the medium through readings, writings and critical reflection of relevant 20th and 21st century artworks, as well as the principles and aesthetics of moving imagery including timing, pacing, repetition, editing, composition, process and the link between sound and image. Activities include class discussions, software and equipment tutorials and studio time for experimental project development.

PHOTOGRAPHIC STORYTELLING

ART 131 Fall Winter Spring 3 Credits

22 hours of lecture 22 hours of lab

Introduction to photographic storytelling. Topics include: examining historical use of the medium, analysis of narrative photographic genres, and the creation of a personal photographic essay. Emphasis placed on seeing photographically and creating narrative. Includes field trip. Appropriate for non-majors and beginning photo students. Previous camera experience helpful, but not required. Student must provide digital camera.

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PHOTO EXCURSIONS

ART 133 Summer 3 Credits

44 hours of lab 22 hours of lecture

Regional field trips to observe, discuss, evaluate, and photograph the elements that combine to form an effective image. Techniques for manipulation of value, hue, and form. No darkroom work.

PHOTOGRAPHY I

ART 140 Summer Fall Winter Spring 4 Credits

22 hours of lecture 44 hours of lab

Basic camera handling and darkroom procedures, metering, film processing, printing, and learning to see photographically. All work in black-and-white. Student must provide manual 35mm camera. A limited number of cameras are available for checkout in the Art Department. [HB, SE]

PHOTOGRAPHY II

ART 141 Spring 4 Credits

44 hours of lab 22 hours of lecture

Continuation of ART 140. Special darkroom and studio techniques. Introduction to the 4x5 and to computer manipulation of photographs. Particular emphasis on self-expression and print quality. Includes field trips to local galleries. Prerequisite: ART 140 or equivalent or consent of Instructional Unit. [HB, SE]

PHOTOGRAPHY III

ART 142 Spring 4 Credits

22 hours of lecture 44 hours of lab

Continuation of ART 141. Opportunities to develop additional technical skill and continued exploration of selfexpression. Prerequisite: ART 141 or equivalent. [HB, SE]

DIGITAL PHOTOGRAPHY I

ART 145 Summer Fall Winter Spring 3 Credits

22 hours of lecture 22 hours of lab

Introduction to digital camera operation, image manipulation software use, seeing skills development, and expressive sensitivity. Special emphasis on the elements and principles of photographic composition, ethical issues, aesthetic vocabulary, and the study of how images communicate. Includes lecture, supervised lab, and group critiques. Familiarity with Adobe Photoshop and Macintosh platform recommended. Students must provide digital camera; a limited number of digital cameras are available for student checkout in the Art Department. [HB, SE]

DIGITAL PHOTOGRAPHY II

ART 146 Winter 4 Credits

22 hours of lecture 44 hours of lab

Digital imagery as self-expression. Refining technical skills, exploring the unique opportunities of the digital medium, and examining current trends via field trips and critiques. Practicing effective small group discussion to demonstrate visual literacy. Prerequisite: ART 145 or both ART 140 and GRCP 120, or consent of instructional unit. [HB, SE]

ART APPRECIATION

ART 151 Summer Fall Winter Spring 3 Credits

33 hours of lecture

The visual arts with which we come in contact every day. Ways contemporary and historic creative expression influence present day living and thinking. Personal contact with many art forms. Some hands-on experience. Especially for non-majors. [HA, SE]

GRAPHIC DESIGN EXPLORATION

ART 172 **Fall Winter Spring** 4 Credits 22 hours of lecture 44 hours of lab

Theoretical survey of Graphic Design and its cultural and historical context. Intended for both non-majors and premajors; focus on how Graphic Design functions as a mode of visual communication and its role in society, as well as exploring Graphic Design as a possible career.

GRAPHIC DESIGN STUDIO I

ART 173 Fall 4 Credits

22 hours of lecture 44 hours of lab

Introduction to the elements and principles of graphic design and the design process through a series of hands-on projects stressing visual literacy, unity of form and utilizing common tools of the trade, including computers. Prerequisite: A grade of "C" or better in ART 115, 172 and CGT 100.

TYPOGRAPHY

ART 174 Winter 4 Credits

22 hours of lecture 44 hours of lab

Typography and its application in graphic design projects. Topics include the history and classification of typeface; choosing and combining fonts; typesetting on the computer, including issues of legibility, readability and spacing, and the creation of original letterforms. Working knowledge of Mac OS and Adobe software is recommended. Offered as the second of three courses in graphic design: Art 173, 174, 175. [HB, SE]

GRAPHIC DESIGN STUDIO II

ART 175 Spring 4 Credits

22 hours of lecture 44 hours of lab

Continuation of ART 173 with focus on layout, composition, messaging, technical considerations and functional constraints for various types of communication design disciplines such as editorial design advertising and persuasive design, branding and identity, or information design. Topics include ethical considerations related to graphic design such as sustainability, public service, consumerism, global diversity, and copyright issues. Prerequisite: A grade of "C" or better in ART 115, 172 and CGT 100.

CERAMICS I: POTTERY

ART 180 Fall Winter Spring 4 Credits

22 hours of lecture 44 hours of lab

Working with clay. Hand-building techniques of pinch, coil, slab and press mold. Introduction to the potter's wheel. Basic glazing techniques. [HB, SE]

CERAMICS II: POTTERY

ART 181 Fall Winter Spring 4 Credits

22 hours of lecture 44 hours of lab

Potter's wheel techniques of centering and throwing a variety of shapes, attaching handles and spouts, and fitting lids. Optional advanced hand-building assignments offered. Introduction to kiln stacking and firing. Prerequisite: ART 180. [HB, SE]

CERAMICS III: POTTERY

ART 182 Fall Winter Spring 4 Credits

22 hours of lecture 44 hours of lab

Combining hand and wheel techniques to create original pieces as sculpture or for specific functions. Mold making, slip casting, underglazing, and kiln firing. Prerequisite: ART 181. [HB, SE]

METAL ARTS I

ART 189 Fall Winter Spring 3 Credits

11 hours of lecture 44 hours of lab

Aesthetic expression within the context of applied design using metal. Design and technical skills will be equally emphasized. Fabrication and design of jewelry and other objects of metal. History of the fabrication of metal objects in other cultures. [HB, SE]

METAL ARTS II

ART 190 Fall Winter Spring 3 Credits

11 hours of lecture 44 hours of lab

Continuation of ART 189. Design and technical skills in the raising and forming of metal vessels. Development of metal arts in Europe from the Middle Ages to the present. Prerequisite: ART 189. [HB, SE]

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METAL ARTS III

ART 191 Fall Winter Spring 3 Credits

11 hours of lecture 44 hours of lab

Continuation of ART 190. Design and technical skills applied to casting and forging of metal objects. Overview of contemporary metal artists and their work. Prerequisite: ART 190. [HB, SE]

COOPERATIVE WORK EXPERIENCE

ART 199 1 – 5 Credits

165 hours of clinical

Supervised work experience in art or photography. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit. [GE]

THE HUMAN FIGURE I

ART 203 4 Credits

22 hours of lecture 44 hours of lab

Working from the male and female form in media already familiar to the student. Emphasis on accurate seeing. Prerequisite: ART 103 or consent of Instructional Unit. [HB, SE]

THE HUMAN FIGURE II

ART 204 4 Credits

22 hours of lecture 44 hours of lab

Working from the male and female form in media already familiar to the student. Emphasis on expressive power and individual development. Prerequisite: ART 203. [HB, SE]

DIGITAL ILLUSTRATION

ART 208 Fall Winter Spring 4 Credits

22 hours of lecture 44 hours of lab

Developing digital illustration skills by using Adobe software with a focus on developing a personal voice, and exploring various styles and techniques. Activities include a series of hands-on creative projects. Prerequisite: A grade of "C" or better in ART 103, 110 and CGT 100.

PORTFOLIO DEVELOPMENT

ART 215 Fall 3 Credits

22 hours of lecture 22 hours of lab

Preparation and presentation of individual portfolio for submission to potential employers, galleries and educational institutions. Topics include traditional and digital portfolio formats, photographing, writing, critiquing, and speaking about artwork. Activities include selecting, refining, and incorporating projects from the entire program into portfolios. Instructors play advisory role, culminating with formal portfolio reviews by instructors, peers, and industry professionals. Prerequisite: Consent of Instructional Unit.

ART HISTORY: ANCIENT TO LATE ANTIQUE

ART 220 Fall 5 Credits

55 hours of lecture

Survey of visual arts in the Mediterranean, the Near East, and in Northern Europe, covering the first arts of ancient humans through the Late Antique, 40,000 BCE-600 CE. Topics include why art and architecture exist and how they function in society; how religion, culture, artistic tradition, and patronage create, support, and influence art and architecture; how art and architecture achieve their effects, using materials, technique, style, and composition. [HA, SE]

ART HISTORY: MEDIEVAL-RENAISSANCE

ART 221 Winter Spring 5 Credits

55 hours of lecture

Survey of visual arts and architecture of Early Medieval through Late Renaissance Europe. 500-1600 CE. Topics include why art and architecture exist and how they function in society, how religion, culture, artistic tradition, and

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patronage create, support, and influence art and architecture, how art and architecture achieve their effects, using materials, technique, style, and composition. [HA, SE]

ART HISTORY: BAROQUE-MODERN

ART 222 Winter Spring 5 Credits

55 hours of lecture

Survey of the visual arts and architecture of Baroque through Modern Europe, ca. 1600-1914 CE. Topics include why art and architecture exist, and how they function in society; how religion, culture, artistic tradition, and patronage create, support, and influence art and architecture; how art and architecture achieve their effects, using materials, technique, style, and composition. [HA, SE]

ART IN THE TWENTIETH CENTURY

ART 223 Spring 5 Credits

55 hours of lecture

Survey of the visual arts and architecture of the Modern and Post-modern Periods, 1900-Present. Topics include why art and architecture exist, and how they function in society; how religion, culture, artistic tradition, and patronage create, support, and influence art and architecture; how art and architecture achieve their effects, using materials, technique, style, and composition. [HA, SE]

ART HISTORY: ASIAN ART

ART 225 Fall 5 Credits

55 hours of lecture

Survey of the visual arts and architecture of India, China, and Japan. Topics include why art and architecture exist, and how they function in society; how religion, culture, artistic tradition, and patronage create, support, and influence art and architecture; how art and architecture achieve their effects, using materials, technique, style, and composition. [HA, SE]

TOPICS IN NON-WESTERN ART

ART 226 Winter 1 – 9 Credits

99 hours of lecture

Survey of the visual arts and architecture of a selected non-western culture. Topics include why art and architecture exist, and how they function in society; how religion, culture, artistic tradition, and patronage create, support, and influence art and architecture; how art and architecture achieve their effects, using materials, technique, style, and composition. Repeatable for up to 9 variable credits. [HA, SE]

WOMEN IN ART

ART 250 5 Credits

55 hours of lecture

Historical survey exploring themes in women's art and challenges women artists faced as professionals within their respective cultures; in-depth study of women artists working in Western traditions.

PAINTING I

ART 257 Fall Winter 4 Credits

22 hours of lecture 44 hours of lab

Introduction to materials and methods of oil and/or acrylic painting. Includes color theory, canvas stretching, and painting from still-life and portrait. Prerequisite: ART 103. [HB, SE]

PAINTING II

ART 258 Fall Winter 4 Credits

22 hours of lecture 44 hours of lab

Continued work with acrylic and oil painting. Emphasis on line, color and pattern as expressive elements. Weekly group discussions. Prerequisite: ART 257. [HB, SE]

PAINTING III

ART 259 Fall Winter 4 Credits

22 hours of lecture 44 hours of lab

Continuation of ART 258. Continued development of problem-solving techniques related to composition and a variety of subjects. Prerequisite: ART 258. [HB, SE]

WATERCOLOR I

ART 260 Summer Spring 4 Credits

22 hours of lecture 44 hours of lab

Introduction to materials and methods of watercolor painting techniques. Topics include color theory, vocabulary, and composition; working in realistic and abstract styles. Activities include in-class critique and discussion. Prerequisite: ART 260. [HB, SE]

WATERCOLOR II

ART 261 4 Credits

22 hours of lecture 44 hours of lab

Intermediate level exploration of watercolor painting. Continued development of skills in color mixing and composition with an emphasis on fostering content and a personal creative voice through the material. Activities include in-class critique and discussion. Prerequisite: ART 260. [HB, SE]

WATERCOLOR III

ART 262 Summer Spring 4 Credits

22 hours of lecture 44 hours of lab

Advanced level exploration of watercolor painting, with emphasis on developing one's own visual language through the material, experimentation and innovation with wet media and its expressive potential; student-initiated research and the creation of a unique body of work suitable for portfolio presentation. Activities include in-class critique and discussion. Prerequisite: ART 261. [HB, SE]

PUBLICATION PRODUCTION

ART 270 Fall Winter 1 – 9 Credits

66 hours of lecture 66 hours of lab

Design and production skills for publications, intended for Phoenix staff, graphic design students and others interested in the publications field. Topics include: Adobe InDesign for layout, preparing for printing, editing, proofing, creating promotional materials, working with printers, budgeting, managing the project and working with a team. Includes field trip. Prerequisite: Consent of Instructional Unit.

PUBLICATION DESIGN

ART 271 Fall Winter Spring 4 Credits

22 hours of lecture 44 hours of lab

Graphic design principles as applied to the discipline of editorial publications. Topics include an exploration of publication formats, designing for target audience groups, page layout, adapting material for online delivery, and culminates with an individual book project with a heavy emphasis on interpreting original content into sequential visual form. Course may be taken concurrently with ART 270 Publication Production. Prerequisite: A grade of "C" or better in ART 174.

GRAPHIC DESIGN STUDIO II

ART 273 Fall Winter Spring 4 Credits 22 hours of lecture 44 hours of lab

Continuation of ART 173 with focus on layout, composition, messaging, technical considerations and functional constraints for various types of communication design disciplines such as editorial design, advertising and persuasive design, branding and identity. Topics include ethical considerations related to graphic design such as sustainability, public service, consumerism, global diversity and copyright issues. Prerequisite: A grade of "C" or better in ART 115, 172 and CGT 100.

GRAPHIC DESIGN STUDIO III

ART 274 Fall Winter Spring 4 Credits

22 hours of lecture 44 hours of lab

Third of three applied-design studio courses, with focus on longer-term projects based on real-world communication design problems with the goal of preparing the student for professional practice. Goal includes portfolio-quality graphic design work such as a personal identity and self-promotional package. Recommended concurrent enrollment with ART 215 – Portfolio Development. Prerequisite: A grade of "C" or better in ART 273.

GALLERY PREPARATION

ART 278 Fall Winter Spring 1 – 6 Credits

33 hours of lecture 66 hours of lab

Various aspects of presenting art exhibits, including the care, handling and installation of artwork, arranging fixtures, lighting, exhibition layout design, writing press material, and other professional practices. Repeatable for up to 6 credits. Written consent of Instructional Unit required.

SELECTED TOPICS

ART 280 Summer Fall Winter Spring 1 – 5 Credits

33 hours of lecture

Course focuses on selected topics in art. Topics vary and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. [SE]

SPECIAL PROJECTS

ART 290 Summer Fall Winter Spring 1 – 6 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [HB]

WELDED SCULPTURE THEORY I

ART 295 Fall Winter Spring 1 Credit

11 hours of lecture

Background for students to begin to develop their own language of form. Through the use of a slide/lecture format, students will learn about contemporary sculpture. Discussions include design problems relating to the fabrication of a welded sculpture. Concurrent enrollment in WELD 120 required. [HB]

WELDED SCULPTURE THEORY II

ART 296 Fall Winter Spring 1 Credit

11 hours of lecture

The design and fabrication of non-representational sculpture. Students will view slides of contemporary work and visit local sculpture sites to improve their understanding of the language of form. The MIG welding process as a sculptural tool will be explored. Concurrent enrollment WELD 121 required. Prerequisite: ART 295. [HB]

WELDED SCULPTURE THEORY III

ART 297 Fall Winter Spring 1 Credit

11 hours of lecture

The design and fabrication of non-representational sculpture. Students will view slides of contemporary work and visit local sculpture sites to improve their understanding of the language of form. The MIG welding process as a sculptural tool will be explored. Concurrent enrollment in WELD 122 required. Prerequisite: ART 296. [HB]

Astronomy

INTRO TO ASTRONOMY

ASTR& 101 Fall Winter Spring 5 Credits
44 hours of lecture 22 hours of lab

Survey of astronomy designed primarily for non-science majors. Includes study of the sun, solar system, stellar evolution, galaxies and cosmology. Evening observation sessions required. Formerly ASTR 101. [NS,SE]

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Automotive Technology

SAFETY, BASICS AND ELECTRIC

AUTO 108 Summer Fall Winter Spring

8 Credits

66 hours of lecture 44 hours of lab

Study of shop safety: technical introduction to dealerships and vehicles (TPORT); study of basic electrical components and systems with emphasis on troubleshooting by application of concepts (Toyota 623). Prerequisite: Eligibility for DVED 023, READ 100 and ENGL 097 and consent of Instructional Unit. [GE]

BRAKES

AUTO 109 Summer Fall Winter Spring 7 Credits

44 hours of lecture 66 hours of lab

Continuing study of shop safety; study of servicing drum, disk, ABS brakes, and traction control: operation, construction, parts, identification, diagnosis and repair procedures (Toyota 552). Prerequisite: Grade of "C" or better in AUTO 108 or consent of Instructional Unit. [GE]

AUTOMOTIVE BASICS

AUTO 110 Fall 15 Credits

110 hours of lab 110 hours of lecture

Technical introduction to dealerships and vehicles (Toyota 021). Basic electrical components and systems with emphasis on troubleshooting by application of concepts (Toyota 623). Servicing drum, disc and ABS brake systems and safety (Toyota 553). Prerequisite: Eligibility for DVED 023, READ 100, and ENGL 097 and consent of Instructional Unit. [GE]

CHASSIS SYSTEMS

AUTO 120 Winter 15 Credits

110 hours of lecture 110 hours of lab

Continuing study of chassis systems: shop safety; (Toyota 553) ABS brakes and traction control: operation, construction, parts identification, diagnosis, and repair procedures; (Toyota 652) automotive electrical components and systems: body electrical problems using a 6-step troubleshooting plan; (Toyota 453) steering and suspension systems: operation, construction, parts identification, diagnosis, alignment and repair procedures (Toyota 453). Prerequisite: Grade of "C" or better in AUTO 110 or consent of Instructional Unit. [GE]

ENGINE PERFORMANCE

AUTO 130 Spring 15 Credits

110 hours of lecture 110 hours of lab

Emphasis on engine performance operation, construction, parts, identification, diagnosis, and repair procedures. Basic emission, fuel injection, computer system diagnosis (Toyota 852), and shop safety. Prerequisite: Grade of "C" or better in AUTO 120 or consent of Instructional Unit. [GE]

CHASSIS SYSTEMS

AUTO 141 Summer Fall Winter Spring 1 – 15 Credits

110 hours of lecture 110 hours of lab

Continuing study of chassis systems: shop safety: (Toyota 553) ABS brakes and traction control: operation, construction, parts identification, diagnosis and repair procedures: (Toyota 652) automotive electrical components and systems: body electrical problems using a 6-step troubleshooting plan: (Toyota 453) steering, and suspension systems: operation, construction, parts identification, diagnosis, alignment and repair procedures. Prerequisite: AUTO 108 or 110. [GE]

ENGINE PERFORMANCE

AUTO 142 Summer Fall Winter Spring 1 - 15 Credits 110 hours of lecture 110 hours of lab

Study of engine performance: shop safety: with emphasis on engine performance operation, construction, parts identification, diagnosis, and repair procedures. (Toyota 852) EFI and TCCS engine control systems: fuel injection system, emission systems and computer system diagnosis. Prerequisite: AUTO 108 or 110. [GE]

COOPERATIVE WORK EXPERIENCE

AUTO 199

Fall Winter Spring

1 - 5 Credits 165 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit. [GE]

DRIVE TRAINS AND ENGINES

AUTO 210 Fall 1 – 15 Credits

110 hours of lab 110 hours of lecture

Mechanical drive train units. Fundamentals of clutches, standard transmissions, differentials, and transaxles. Diagnosis, repair, and rebuilding procedures (Toyota 302), engine operation, construction and parts identification, and shop safety. Prerequisite: A grade of "C" or better in AUTO 130 and passing scores on two ASE exams to include A6 or consent of Instructional Unit.

ADVANCED POWER TRAINS

AUTO 220 Winter 15 Credits

110 hours of lecture 110 hours of lab

Fundamentals of torque converters, automatic transmissions, automatic transaxles and final drives. Operation, components, diagnosis, repair, and rebuilding procedures (Toyota 274). Advanced electrical systems, operation, construction, parts identification, diagnosis, repair procedures of engine, transmission, brake, suspension, cruise control, air conditioning and body control computers, and shop safety. Prerequisite: Grade "C" or better in AUTO 210 or consent of instructional unit. [GE]

ADVANCED CHASSIS SYSTEMS

AUTO 230 Spring 15 Credits

110 hours of lecture 110 hours of lab

Advanced topics of engine performance (Toyota 256), air conditioning (Toyota 752), ABS brake systems, and advanced suspension systems. Operation, components, rebuilding procedures, construction, parts identification, advanced diagnosis, and repair procedures of engine performance, brake, suspension, air conditioning and body control computers, and shop safety. Prerequisite: Grade of "C" or better in AUTO 220 or consent of Instructional Unit. [GE]

MANUAL TRANSMISSIONS, AXLES AND ENGINES

AUTO 240 Summer Fall Winter Spring 1 – 15 Credits

110 hours of lecture 110 hours of lab

Study of mechanical drive train systems. (Toyota 302) Fundamentals of clutches, manual transmissions, manual transaxles, transfer cases and differentials with emphasis on diagnosis, repair, and rebuilding procedures. Study of engine repair operations, construction, parts identification, diagnosis, with emphasis on rebuilding procedures, and shop safety. Prerequisite: AUTO 108 or 110. [GE]

AUTOMATIC TRANSMISSIONS AND ADVANCED ELECTRICAL

AUTO 241 Summer Fall Winter Spring 1 - 15 Credits

110 hours of lecture 110 hours of lab

Study of automatic transmissions: shop safety: (Toyota 274) automatic transmissions: fundamentals of torque converters, automatic transmissions, automatic transaxles & final drive, operation components, diagnosis, repair, & rebuilding procedures. Study of advanced electrical concepts (Toyota 852) engine control systems: operation, construction, parts identification, diagnosis, & repair procedures with emphasis on DVOM & lab scope use. Prerequisite: AUTO 108 or 110. [GE]

A/C AND ADVANCED CHASSIS SYSTEMS

AUTO 242 Summer Fall Winter Spring 1 - 15 Credits

110 hours of lecture 110 hours of lab

Continuing study of advanced topics of electrical and engine performance: shop safety: (Toyota 256) with emphasis on evaporative control systems, SRS systems and accessories. Heating and air conditioning systems with emphasis on (Toyota 752) air conditioning and automatic temperature control: operation, components, recharging procedures, construction, and parts identification. Prerequisite: AUTO 108 or 110. [GE]

SELECTED TOPICS

AUTO 280 1 – 8 Credits

88 hours of lecture

Selected topics in Auto. Topics vary and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit. Specific topics are listed in the quarterly class schedule. [GE]

SPECIAL PROJECTS

AUTO 290 Fall Winter Spring 1 – 3 Credits

For automotive majors only. Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

Baking - Culinary Arts

BAKING LAB

BAK 110 Fall 10 Credits

220 hours of lab

Practical work experience in fundamentals of professional baking. Includes the production of a variety of doughnuts, sweet-rolls, breads, cookies, pastries, pies and cake making and finishing. Concurrent enrollment in BAK 111 required. [GE]

BAKING THEORY

BAK 111 Fall 5 Credits

55 hours of lecture

Materials used in baking and how they relate to one another in the mixing, processing and baking of specific products. Concurrent enrollment in BAK 110 required. [GE]

BAKING LAB

BAK 112 Winter 10 Credits

220 hours of lab

Practical work experience in fundamentals of professional baking. Includes the production of a variety of doughnuts, sweet-rolls, breads, cookies, pastries, pies and cake making and finishing. Concurrent enrollment in BAK 113 required. [GE]

BAKING THEORY

BAK 113 Winter 5 Credits

55 hours of lecture

Materials used in baking and how they relate to one another in the mixing, processing and baking of specific products. Concurrent enrollment in BAK 112 required. [GE]

BAKING LAB

BAK 114 Spring 10 Credits

220 hours of lab

Practical work experience in fundamentals of professional baking. Includes the production of a variety of doughnuts, sweet-rolls, breads, cookies, pastries, pies and cake making and finishing. Concurrent enrollment in BAK 115 required. [GE]

BAKING THEORY

BAK 115 Spring 5 Credits

55 hours of lecture

Materials used in baking and how they relate to one another in the mixing, processing and baking of specific products. Concurrent enrollment in BAK 114 required. [GE]

BAKING LAB

BAK 116 Summer 10 Credits

220 hours of lab

Practical work experience in the fundamentals of professional baking. Includes the production of a variety of doughnuts, sweet rolls, breads cookies, pastries, pies, and cake making and finishing. Concurrent enrollment in BAK 117 required. [GE]

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BAKING THEORY

BAK 117 Summer 5 Credits

55 hours of lecture

Lectures covering the materials used in baking, how they relate to each other in the mixing and processing of specific products. Lectures include lab demonstrations of each topic. Concurrent enrollment in BAK 116 required. [GE]

BEGINNING CAKE DECORATING

BAK 120 Fall Winter Spring 3 Credits

22 hours of lecture 22 hours of lab

Practical exercises covering cake set-up, filling, trimming, and icing. Basic flower construction including design layout, script borders, cut-out designs, and color wheel. [GE]

INTERMEDIATE CAKE DECORATING

BAK 122 Fall Winter Spring 3 Credits

22 hours of lecture 22 hours of lab

Practical exercises covering cake set-up, filling, trimming, and icing. The making and designing of a variety of flowers and borders. Script, stencils, piping, gel transfers, design perspective, image projection, and the use of air brushes. [GE]

ADVANCED CAKE DECORATING

BAK 124 Fall Winter Spring 3 Credits

22 hours of lecture 22 hours of lab

Wedding cake set-up and construction. Borders for wedding cakes. Make orchids and other flowers to compliment special design cakes. Piping of comic-type figures. [GE]

PASTRY ART

BAK 126 Winter 3 Credits

22 hours of lecture 22 hours of lab

Basic course for the beginning pastry chef. Topics include custards, ice creams, specialty sauces, meringues, pate choux, Bavaarians, candies, holiday desserts, and individual plated desserts. [GE]

COOPERATIVE WORK EXPERIENCE

BAK 199 Summer Fall Winter Spring 1 – 5 Credits

165 hours of clinical

Supervised work experience in an approved program-related job. Completing specific learning objectives and gaining valuable industry knowledge enhances choice of future employment opportunities. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit. [GE]

BAKERY MANAGEMENT LAB

BAK 210 Fall 10 Credits

220 hours of lab

Practical instruction in bakery management, working at various baking stations. Concurrent enrollment in BAK 211 required. Prerequisite: Three quarters of BAK 110, 112, 114, or 116. [GE]

BAKERY MANAGEMENT THEORY

BAK 211 Fall 5 Credits

55 hours of lecture

Introduction and group discussions regarding management and merchandising of a bakery. Concurrent enrollment in BAK 210 required. Prerequisite: Three quarters of BAK 111, 113, 115, or 117. [GE]

BAKERY MANAGEMENT LAB

BAK 212 Winter 10 Credits

220 hours of lab

Practical instruction in bakery management, working at various baking stations. Concurrent enrollment in BAK 213 required. Prerequisite: Three quarters of BAK 110, 112, 114, or 116. [GE]

BAKERY MANAGEMENT THEORY

BAK 213 Winter 5 Credits

55 hours of lecture

Introduction and group discussions regarding management and merchandising of a bakery. Concurrent enrollment in BAK 212 required. Prerequisite: Three quarters of BAK 111, 113, 115, or 117. [GE]

BAKERY MANAGEMENT LAB

BAK 214 Spring 10 Credits

220 hours of lab

Practical instruction in bakery management, working at various baking stations. Concurrent enrollment in BAK 215. Prerequisite: Three quarters of BAK 110, 112, 114, or 116. [GE]

BAKERY MANAGEMENT THEORY

BAK 215 Spring 5 Credits

55 hours of lecture

Introduction and group discussions regarding management and merchandising of a bakery. Concurrent enrollment in BAK 214. Prerequisite: Three quarters of BAK 111, 113, 115 or 117. [GE]

BAKERY MANAGEMENT LAB

BAK 216 Summer 10 Credits

220 hours of lab

Practical instruction in bakery management, working at various baking stations. Concurrent enrollment in BAK 217 required. Prerequisite: Three quarters of BAK 110, 112, 114, or 116. [GE]

BAKERY MANAGEMENT THEORY

BAK 217 Summer 5 Credits

55 hours of lecture

Introduction and group discussions regarding management and merchandising of a bakery. Concurrent enrollment in BAK 216 required. Prerequisite: Three quarters of BAK 111, 113, 115 or 117. [GE]

SPECIAL PROJECTS

BAK 290 Summer Fall Winter Spring 1 – 12 Credits

Opportunity to plan, organize and complete individualized special projects approved by the department. [GE]

Biology

BIOLOGY PRACTICUM

BIOL 011 Summer Fall Winter Spring 1 – 10 Credits

220 hours of lab

Laboratory work for selected biology courses. Concurrent enrollment in BIOL& 251, 252, or 253 required.

SURVEY OF BIOLOGY

BIOL & 100 Summer Fall Winter Spring 5 Credits

44 hours of lecture 33 hours of lab

Overview of basic concepts and issues in biology including the cellular basis of life, metabolism, principles of inheritance, evolution and diversity. Strong emphasis on the process of scientific inquiry using critical thinking and communication abilities. This course is intended for non-biology majors and fulfills the laboratory science requirements or as a recommended course for other biology courses. English writing skills are highly recommended. Required for psychology majors. Students may not receive credit for both BIOL& 100, BIOL 105 and AG/BIOL 175. Formerly BIOL 104. [NS, SE]

ENVIRONMENTAL BIOLOGY

BIOL 101 Fall Winter Spring 5 Credits

44 hours of lecture 33 hours of lab

Overview of basic concepts and issues related to the interaction between humans and their environment. Topics include population growth, loss of biodiversity, global climate change, ozone depletion, energy consumption and

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various types of pollution. This course is intended for non-majors and fulfills the laboratory science distribution requirement. It is also required for WSU-Vancouver Environmental Science/Regional Planning majors. [NS, SE]

INTRODUCTION TO WILDLIFE

BIOL 139 Fall Winter Spring 3 Credits

33 hours of lecture

Wildlife conservation and management in the U.S. and throughout the world. Examines the social and political aspects of wildlife conservation and management, challenges to management of biodiversity, wildlife population management, and ecosystem management. [NS, SE]

MAMMALS OF THE NORTHWEST

BIOL 140 Fall Winter 3 Credits

33 hours of lecture

Important mammals of the Pacific Northwest. Their identification, classification, life histories, ecology, current status, and management. [NS, SE]

BIRDS OF THE PACIFIC NORTHWEST

BIOL 141 Winter 3 Credits

33 hours of lecture

Important Birds of the Pacific Northwest. Their identification, classification, life histories, ecology, current status, and management. [NS, SE]

FRESHWATER FISHES OF THE PACIFIC NORTHWEST

BIOL 142 Fall Spring 3 Credits

33 hours of lecture

Important fishes of the Pacific Northwest. Identification, classification, and basic biology of freshwater fishes of the Pacific Northwest. Introduction to fishery management concepts. Overview of factors affecting salmon in the Columbia River Basin. [NS, SE]

INTRODUCTION TO FORESTRY

BIOL 143 Spring 3 Credits

33 hours of lecture

A forest management course including the structure and function of trees, soils, forest ecology, forest insects and diseases, timber management, fire management, and forest economy. Class will occasionally meet off campus and a Saturday field trip is required. [NS, SE]

REPTILES & AMPHIBIANS OF THE PACIFIC NW

BIOL 145 Spring 3 Credits

33 hours of lecture

Introduction to the biology, ecology, evolution, and geographic distribution of Pacific Northwest reptiles and amphibians. [NS, SE]

SURVEY OF BIODIVERSITY

BIOL 146 Fall 2 Credits

22 hours of lecture

Survey of the major of organisms including animals, plants, fungi, protozoa, bacteria, archaea and prions. Students may not receive credit for both BIOL 217 and BIOL 146. [NS, SE]

MARINE BIOLOGY

BIOL 150 Fall 5 Credits

33 hours of lecture 44 hours of lab

The marine environment (physical and chemical properties), its plants, bacteria, animal life (vertebrates, invertebrates), ecosystems, fisheries and pollution. [NS, SE]

HUMAN BIOLOGY

BIOL 164 Summer Fall Winter Spring 4 Credits

44 hours of lecture

The structure and function of the human body as it relates to homeostasis, health, disease and the environment. Concepts to be covered include human organization, processing, transporting, integration/coordination, reproduction, genetic, and evolution/ecology. Can be used as a science distribution requirement. Concurrent enrollment in BIOl 165 recommended. Formerly BIOL 160. [NS, SE]

HUMAN BIOLOGY LAB

BIOL 165 Summer Fall Winter Spring 1 Credit

33 hours of lab

Laboratory study of the structure and function of the human body as it relates to homeostasis, health, disease, and the environment. Concurrent enrollment in, or completion of BIOL 164 required. Formerly BIOL 161. [NS, SE]

HUMAN GENETICS

BIOL 167 Fall Spring 3 Credits

33 hours of lecture

Introduction to a variety of genetics topics, including nature versus nurture, forensic sciences, patterns of inheritance, pedigree analysis, diseases, genetically modified organisms, gene therapy, cloning, and eugenics. Course will also focus on realized and/or potential impacts on society. Formerly BIOL 162.

HUMAN GENETICS LABORATORY

BIOL 168 Fall Winter Spring 2 Credits

11 hours of lecture 33 hours of lab

An introductory course that explores a variety of genetics topics through hands-on activities, simulations, presentation, and discussions. Activities may include DNA extraction, restriction enzyme digestions, electrophoresis, recombinant DNA, bacterial transformation, polymerase chain reaction (PCR) mutagenesis, genetically modified foods, antibiotic resistance, genetic crosses, genetic mapping, population genetics, and DNA databases. Prerequisite: A grade of "B-" or better in BIOL& 100 or BIOL 164 or BIOL 167 or consent of Instructional Unit.

BIOETHICS

BIOL 180 Fall Winter Spring 3 Credits

33 hours of lecture

Study of biological science and ethics. Ethical principles and theories are used in solving bioethical dilemmas. Concepts studied include genetic engineering, inherited disorders, cloning, physician assisted suicide, allocation of health resources, organ donation, and environmental ethics. [HA, NS, SE]

COOPERATIVE WORK EXPERIENCE

BIOL 199 Summer Fall Winter Spring 1 – 5 Credits

165 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit. [GE]

FIELD STUDIES IN BIOLOGY

BIOL 208 Winter Spring 1 – 10 Credits

22 hours of lecture 286 hours of lab

For students interested in biology. An ecological approach with a diversity of habitats being visited (marine in winter, Great Basin Desert and marsh lands in spring). Credits for BIOL 208 are accumulated for each trip with a total of 15 credits possible for all trips. Prerequisite: Completion of a 100- or 200- level biology course, or consent of instructional unit. [NS, SE]

MAJORS ECOLOGY/EVOLUTION

BIOL& 221 Fall Winter 5 Credits

44 hours of lecture 33 hours of lab

First course of three introductory courses for life science majors. Covers Mendelian genetics, evolution, adaption,

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speciation, biodiversity, and ecology. Prerequisite: Completion of or concurrent enrollment in CHEM& 139 or 121 or 141. Formerly BIOL 201. [NS,SE]

MAJORS CELL/MOLECULAR

BIOL 222 Winter Spring 5 Credits

44 hours of lecture 33 hours of lab

Second course of three introductory courses for life science majors. Includes organic chemistry, cell structure, DNA structure and replication, gene expression, cell division, organismal development, molecular genetics and biotechnology. Prerequisite: Completion of BIOL& 221 with a grade of "C" or better. Formerly BIOL 202. [NS, SE]

MAJORS ORGANISMAL PHYS

BIOL & 223 Summer Spring 5 Credits

44 hours of lecture 33 hours of lab

Third course of three introductory courses for life science majors. Covers the physiology of major animal and plant organ systems. Prerequisite: Completion of BIOL& 221 with a grade of "C" or better. Formerly BIOL 203. [NS, SE]

FLOWERING PLANTS OF THE PACIFIC NORTHWEST

BIOL 224 Spring 5 Credits

44 hours of lecture 33 hours of lab

Identification and ecology of local wildflowers through the use of taxonomic keys, preparation of specimens and field trips to study native species in their habitats. For forestry, wildlife, recreation, botany and non-biology majors interested in learning to recognize local wildflowers. A Saturday field trip is required. [NS, SE]

HUMAN A & PI

BIOL& 251 Fall Winter Spring 4 Credits
33 hours of lecture 33 hours of lab

The structure and function of the human body. How it can adjust to changes in the internal and external environment. For students in Nursing, Dental Hygiene, and other related life science fields (Pre-Chiropracty, Pre-Optometry, etc) or as a life science for non-biology majors. Terminology, cell, protein synthesis, DNA replication, tissues, integumentary system, skeletal system, articular system, muscular system, nervous system, endocrine system, reproductive system, circulatory system, digestive system, respiratory system, and urinary system. Electrolyte balance. National standardized final exam. Concurrent enrollment in BIOL 011 for one credit and BIOL 251L required. Prerequisite: A grade of "C" or better in BIOL& 100 or BIOL 164/165, or BIOL& 221 or CHEM& 121 or 141 or consent of Instructional Unit. Formerly BIOL 231. [NS, SE]

HUMAN A & P II

BIOL& 252 Summer Winter Spring 4 Credits 33 hours of lecture 33 hours of lab

The structure and function of the human body. How it can adjust to changes in the internal and external environment. For students in Nursing, Dental Hygiene, and other related life science fields (Pre-Chiropracty, Pre-Optometry, etc) or as a life science for non-biology majors. Terminology, cell, protein synthesis, DNA replication, tissues, integumentary system, skeletal system, articular system, muscular system, nervous system, endocrine system, reproductive system, circulatory system, digestive system, respiratory system, and urinary system. Electrolyte balance. National standardized final exam. Concurrent enrollment in OL 011, for one credit and BIOL 252L required. Prerequisite: A grade of "C" or better in BIOL 251 or written consent of Instructional Unit. Formerly BIOL 232. [NS, SE]

HUMAN A & P III

BIOL 253 Summer Fall Spring 4 Credits 33 hours of lecture 33 hours of lab

The structure and function of the human body. How it can adjust to changes in the internal and external environment. For students in Nursing, Dental Hygiene, and other related life science fields (Pre-Chiropracty, Pre-Optometry, etc.) or as a life science for non-biology majors. Terminology, cell, protein synthesis, DNA replication, tissues, integumentary system, skeletal system, articular system, muscular system, nervous system, endocrine system, reproductive systems, circulatory system, digestive system, respiratory system, and urinary system. Electrolyte balance.

National standardized final exam. Concurrent enrollment in BIOL 011 for one credit and BIOL 253L required. Prerequisite: A grade of "C" of better in BIOL 252 or consent of Instructional Unit. Formerly BIOL 233. [NS,SE]

MICROBIOLOGY

BIOL & 260 Summer Fall Winter Spring 5 Credits

44 hours of lecture 33 hours of lab

History of microbiology and a survey of organisms included in the study of microbiology with emphasis on bacteria. Physiology, morphology, genetics, growth and reproduction of bacteria. Experiments stress lab techniques and organisms that are a factor in clinic and hospital environments. Prerequisite: CHEM& 121 or 141. Formerly BIOL 240. [NS, SE]

HUMAN CADAVER DISSECTION

BIOL 275 Fall Winter Spring 1 – 6 Credits

22 hours of lecture 132 hours of lab

Dissection of the muscular, circulatory, nervous, digestive and reproductive systems. [SE]

SELECTED TOPICS

BIOL 280 1 – 5 Credits

55 hours of lecture

Selected topics in Biology. Topics vary, and course contents change to reflect new topics. Because the course varies in content it is repeatable for credit for different topics. [SE]

SPECIAL PROJECTS

BIOL 290 Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize, and complete special projects approved by department. Prerequisite: Written consent of Instructional Unit. [SE]

Business Administration

BASIC ACCOUNTING PROCEDURES

BUS 028 Summer Fall Winter 3 Credits

33 hours of lecture

Introduction to the fundamental bookkeeping functions of the double-entry accounting process to prepare financial information for a business or organization. Topics including the basic accounting equation, preparation of business and financial transactions, journalizing, posting, making adjustments, preparing the worksheet, and preparing financial statements from the worksheet.

BASIC ACCOUNTING PROCEDURES

BUS 029 Winter Spring 3 Credits

33 hours of lecture

A continuation of BUS 028, with focus on accounting in a merchandising business. Topics include the valuation of inventories, depreciation, tax reports, payroll accounting, and the preparation of financial statements and special journals. Prerequisite: BUS 028.

ACCOUNTING APPLICATIONS

BUS 036 Spring 3 Credits

33 hours of lecture

Accounting procedures applied to business simulations. Includes payroll, depreciation of fixed assets, budgeting, maintaining sales and purchase records and preparing financial statements. Prerequisite: BUS 029 or consent of Instructional Unit.

INTRODUCTION TO BUSINESS

BUS& 101 Fall Winter Spring 5 Credits

Section D: Course Descriptions: page D28

55 hours of lecture

Learn about the business functions of management, human resources, marketing, law, computers, accounting,

finance, production, small business and international business. Credit not allowed for both BUS& 101, BUS 101 and MGMT 100. Formerly BUS 101. [SE]

CUSTOMER SERVICE

BUS 110 Fall 3 Credits

33 hours of lecture

Introduction to customer-centered business organization. Topics include the principles and practices of customer relations, the history of consumerism and customer relations departments, and methods to develop internal/external customer service skills, including identifying and responding to their needs, improving skills in providing information, dealing with conflict situations, and developing a positive customer relations climate.

SMALL BUSINESS MANAGEMENT

BUS 115 Summer Fall Winter Spring 3 Credits

33 hours of lecture

Strategic and managerial considerations in starting, building, and maintaining a small business. Purchase, location, and layout of a new business along with controlling finances, purchasing, personnel, inventory management, pricing, and the legal environment.

MERCHANDISING MANAGEMENT

BUS 116 Winter 3 Credits

33 hours of lecture

Introduction to merchandising management. Topics include retail buying and merchandising functions, negotiation techniques, management of incoming/outgoing merchandise and inventory, mathematics of merchandising, analysis of vendor performance, sales forecasting, and creating a merchandising plan.

ADVERTISING

BUS 117 Spring 3 Credits

33 hours of lecture

Introduction to advertising. Topics include the problems faced by advertisers and their agencies, along with the policies and procedures for solutions in the development of advertising objectives and strategies, selection of media, determination of budgeting methods, and preparation of copy and layout for effective results. Credit not allowed for both BUS 117 and BUS 217.

COMPUTERIZED ACCOUNTING

BUS 130 Spring 3 Credits

33 hours of lecture

Computerized accounting techniques in the basic areas of financial accounting, including the processes of analyzing, recording, reporting and interpreting accounting data in a business environment. A systems approach with real world applications of the general ledger, accounts receivable, accounts payable, purchasing, cash receipts, accounting for sales, payroll, and month and year-end closing for both a service and a merchandising business. Quickbooks software is utilized in this course. Prerequisite: BUS 028 and 029 or ACCT& 201 (or BUS 231). [GE]

HUMAN RESOURCE MGMT FOR THE SMALL BUSINESS

BUS 132 Winter 1 Credit

11 hours of lecture

Human resource management for the moderately small business. Topics include hiring, training, and employee performance review.

FEASIBILITY PLAN

BUS 133 Fall 1 Credit

11 hours of lecture

Learn how to create a feasibility plan. An introduction to the concepts of building a feasibility plan. The purpose for which feasibility plans are developed, audiences, format design, updating, and presenting will be topics of discussion. The importance of maintaining flexibility and advantages of computer usage are demonstrated. Previous business or business planning experience may be useful but is not required. Emphasis is on building familiarity with creation, refinement, research, and techniques used, goals to be achieved, through use of a "hands-on" interactive

approach to feasibility plans. [GE]

BUSINESS PLAN

BUS 135 Spring 3 Credits

33 hours of lecture

An introduction to building a business plan that incorporates a promotional plan. Plan purpose, adudience, design, format, and presentation will be considered. Previous business planning experience useful but not required. Plans will incorporate a "hands-on" interactive approach. [GE]

PERSONAL FINANCE

BUS 160 Fall Winter Spring 5 Credits

55 hours of lecture

Buying insurance (life, health, property, and auto), buying and financing a home, minimizing Federal income tax, borrowing, saving, and investing. [GE]

PERSONAL INVESTMENTS

BUS 171 Fall Winter Spring 2 Credits

22 hours of lecture

Classification and analysis of various kinds of securities, managing a sound investment program, and mechanics of the stock exchange. [GE]

COOPERATIVE WORK EXPERIENCE

BUS 199 Summer Fall Winter Spring 1 – 5 Credits

165 hours of clinical

Up to 5 credits for supervised work training in an approved job. Completion of, or concurrent enrollment in BTEC 147 or HDEV 195, 198, or 200 required. Prerequisite: Completion of one class with a "C" or better in Business, Economics or Management. Consent of Instructional Unit required. [GE]

BUSINESS LAW

BUS& 201 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Practical applications of the law of contracts, agency, employment, real and personal property, and bailments in the business world and in one's personal affairs. Legal reasoning and illustrative case problems. Prerequisite: Sophomore standing or consent of Instructional Unit. Formerly BUS 224. [SE]

DESCRIPTIVE STATISTICS

BUS 203 Fall Winter 3 Credits

33 hours of lecture

Application of statistics to practical business problems. Includes summarizing and presenting data in tables and graphs, calculating and using common descriptive statistics, determining probabilities and using the binomial. Poisson, and normal probability distributions. All business majors intending to complete a Clark AA degree must take BUS 203. All other majors may take BUS 203 or MATH 203. Knowledge of Excel highly recommended. Prerequisite: MATH 095 or equivalent or consent of Instructional Unit. [Q, SE]

INFERENTIAL STATISTICS

BUS 204 Winter Spring 3 Credits

33 hours of lecture

Application of statistics to practical business and economic problems. Includes sampling, point and interval estimates, hypothesis testing using the normal, t,f and chi-square distributions, analysis of variance, correlation, and simple and multiple regression. All business majors must have completed BUS 203 with a "C" or better if intending to complete a Clark AA degree. All other majors must have completed BUS 203 or MATH 203 with a "C" or better. Knowledge of Excel recommended. Prerequisite: Completion of BUS 203 or MATH 203 with a "C" or better or consent of Instructional Unit. [Q, SE]

BUSINESS COMMUNICATIONS

BUS 211 Fall Winter Spring 3 Credits

33 hours of lecture

Developing proficiency in written and oral communications appropriate for business by composing, organizing, and editing documents such as letters, reports, memos, emails, and presentations from a variety of business cases and managerial interviews. Emphasis on team work, collaboration, diversity, intercultural communication, and the delivery of oral presentations, using specialized software. Same as ENGL 212. Prerequisite: ENGL& 101 (or ENGL 101) or consent of Instructional Unit. [SE]

PRINCIPLES OF ADVERTISING

BUS 217 Spring 5 Credits

55 hours of lecture

Historic, social, environmental and legal aspects of advertising. The client, agency and consumer. Strategies for marketing, research, positioning and advertising. Development of the media plan and types of media. Creative strategy and execution. Credit not allowed for both BUS 117 and BUS 217. [GE]

PROFESSIONAL SELLING

BUS 251 Fall 3 Credits

33 hours of lecture

Introduction to personal selling concepts for the relationship era of business. Focus on selling stages, including prospecting, qualifying, developing rapport, overcoming objections, closing techniques, and following up with customer service. Focus on personal, retail, and organizational selling. [GE]

PRINCIPLES OF MARKETING

BUS 260 Spring 5 Credits

55 hours of lecture

Introduction to concepts of marketing, with practical emphasis on the research, evaluation, and segmentation of markets. Focus on behavior of consumer and organizational buyers. Activities include developing a marketing plan to include product planning, pricing, promoting, and placement. [GE]

SELECTED TOPICS

BUS 280 Fall Winter Spring 1 – 5 Credits

55 hours of lecture

The course focuses on selected topics in Business. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. Individual topics are listed in the quarterly class schedules. [GE]

SPECIAL PROJECTS

BUS 290 Summer Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

Business Mathematics

FUNDAMENTALS OF BUSINESS MATHEMATICS

MATHB 065 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Application of mathematics to common business situations. Emphasis is on practical applications and problem-solving skills for the business professional as well as the consumer and investor. Prerequisite: A grade of "C" or better in DVED 023 or recommending score on the placement test or consent of Instructional Unit.

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Business Technology

SPEED AND ACCURACY BUILDING

BTEC 010 Summer Fall Winter Spring 1 – 3 Credits

11 hours of lecture 44 hours of lab

Emphasis will be placed on correct techniques and appropriate drills to improve speed and accuracy. Prerequisite: BTEC 102 or consent of Instructional Unit.

PROFESSIONAL SPELLING & PROOFREADING SKILLS

BTEC 082 Summer Fall Winter Spring 1 – 2 Credits

22 hours of lecture

Building basic proofreading skills through the development of spelling and vocabulary.

APPLIED OFFICE ENGLISH

BTEC 087 Fall Winter Spring 3 Credits

33 hours of lecture

Review and develop fundamental skills in dictionary use, spelling, business vocabulary, editing, word usage, grammar, sentence structure, and punctuation. Provides practice in basic writing skills for business letters and memorandums. Prerequisite: DVED 094 or recommending score on the college writing skills placement test for ENGL 097.

KEYBOARDING

BTEC 100 Summer Fall Winter Spring 1 – 3 Credits

11 hours of lecture 44 hours of lab

Introduction to the keyboard, development of speed and accuracy, and basic keyboarding applications, including business letters, memos, tables, and reports. Keyboarding courses (BTEC 101 and 190) are taught as individualized instruction through self-paced study. Students register for BTEC 100. At the end of the quarter, registration will automatically be changed to the appropriate course(s). A student earns from 1 to 3 credits in a course depending on the number of lessons and tests successfully completed. [GE]

BEGINNING KEYBOARDING

BTEC 101 Summer Fall Winter Spring 1 – 3 Credits

11 hours of lecture 44 hours of lab

Introduction to keyboard, development of speed and accuracy and basic keyboarding applications – simple letters, memos, tables, and reports. For students who have had no previous keyboarding instruction. Register for BTEC 100. At the end of the quarter, registration will automatically be changed to the appropriate course(s). This course is taught on microcomputers. [GE]

DOCUMENT FORMATTING

BTEC 102 Summer Fall Winter Spring 1 – 3 Credits

11 hours of lecture 44 hours of lab

Business letters, tables, electronic forms, use of templates, and report keyboarding on a production basis. Further development of speed and accuracy. Continuous enrollment, flexible times, individual program. Prerequisite: BTEC 101, or 190, and BTEC 122 or consent of Instructional Unit. [GE]

BEGINNING COMPUTER FUNDAMENTALS

BTEC 105 Summer Fall Winter Spring 3 Credits

33 hours of lecture

Introduction to basic computer skills. Topics include computer components, terminology, and skills to manage files/folders, send and receive email, create documents using word processing, make simple spreadsheets, and locate information on the Internet. For students with little or no prior computer experience. [GE]

BUSINESS ENGLISH

BTEC 107 Winter 5 Credits

55 hours of lecture

Develop proficiency in the language skills necessary for business writing. Strong emphasis placed on grammar,

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punctuation, sentence structure, capitalization, subject/verb agreement, and editing. Prerequisite: BTEC 087 or recommending score on the college writing skills placement test for ENGL& 101.

APPLICATION ESSENTIALS: WORD

BTEC 116 Summer Fall Winter Spring 1 Credit

11 hours of lecture

Fundamentals of common business applications using MS Windows and MS Word, and using Windows to manage files/folders and giving students hands-on experience in word processing. Basic Word features, basic word processing skills and MLA document formatting will be covered.

APPLICATION ESSENTIALS: EXCEL

BTEC 117 Summer Fall Winter Spring 1 Credit

11 hours of lecture

Fundamentals of common business applications using MS Windows and MS Excel, and using Windows to manage files/folders and giving students hands-on experience in spreadsheets. Basic Excel features, basic spreadsheet skills and common formulas and functions will be covered.

APPLICATION ESSENTIALS: POWERPOINT

BTEC 118 Summer Fall Winter Spring 1 Credit

11 hours of lecture

Fundamentals of common business applications using MS Windows and MS Excel, and using Windows to manage files/folders and giving students hands-on experience in spreadsheets. Basic Excel features, basic spreadsheet skills and common formulas and functions will be covered.

WORD FOR BUSINESS

BTEC 122 Fall Winter Spring 5 Credits

55 hours of lecture

Producing letters, memos, and tables using fonts, tabs, tables, numbered and bulleted text, thesaurus, and grammarcheck. Reports and longer documents will be created using columns, page numbers, footnotes, endnotes, headers, and footers. Form letters using mailing lists, envelopes, mailing labels, and standard paragraphs will be assembled. Styles, flyers and newsletters with graphics are included. [GE]

INTRODUCTION TO WORD

BTEC 125 Fall Spring 3 Credits

33 hours of lecture

Create, format, edit, save and print documents using fonts, numbered and bulleted text tables, tabs, columns, the-saurus, grammar-check. Create reports and longer documents using columns, page numbers, footnotes, endnotes, headers and footers. Assemble form letters using mailing lists, envelopes, mailing labels, and standard paragraphs. Use styles to create flyers and newsletters with graphics. BTEC 100 or keyboarding speed of 30 wpm recommended. Application software is Microsoft Word. [GE]

FILING AND RECORDS MANAGEMENT

BTEC 131 Fall Winter 3 Credits

33 hours of lecture

Principles and procedures of records storage and control including record cycle, microrecords, and electronic files. Selection of equipment and supplies. Practice in using indexing rules, coding, and filing for alphabetic, numeric, geographic, and subject filing systems. [GE]

10-KEY CALCULATOR

BTEC 135 Fall Winter Spring 1 Credit

5 hours of lecture 10 hours of lab

Ten-key by touch using a business-size electronic calculator. Training on operational features of modern business calculators incorporating business applications. [GE]

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BUSINESS TECHNOLOGY SEMINAR

BTEC 140 Summer 2 Credits

22 hours of lecture

Problems, methods, procedures, and human relations related to on-the-job work experience in business. Concurrent enrollment in BTEC 199. Prerequisite: Written consent of Instructional Unit required. [GE]

BUSINESS TECHNOLOGY SEMINAR

BTEC 141 Fall 2 Credits

22 hours of lecture

Problems, methods, procedures, and human relations related to on-the-job work experience in business. Concurrent enrollment in BTEC 199. Prerequisite: Written consent of Instructional Unit required. [GE]

BUSINESS TECHNOLOGY SEMINAR

BTEC 143 Winter 2 Credits

22 hours of lecture

Problems, methods, procedures, and human relations related to on-the-job work experience in business. Concurrent enrollment in BTEC 199 required. Prerequisite: Consent of Instructional Unit. [GE]

BUSINESS TECHNOLOGY SEMINAR

BTEC 145 Spring 2 Credits

22 hours of lecture

Problems, methods, procedures, and human relations related to on-the-job work experience in business. Concurrent enrollment in BTEC 199 required. Prerequisite: Consent of Instructional Unit. [GE]

PROFESSIONAL SELF-DEVELOPMENT

BTEC 147 Fall Winter Spring 2 Credits

22 hours of lecture

Professional concepts applied to individuals in the business world in relating to themselves, the companies they represent, and the public they serve. For employed or prospective employees who wish to improve their professional relations and growth potential. [GE]

COMPUTER APPLICATIONS ESSENTIALS

BTEC 149 Summer Fall Winter Spring 3 Credits

33 hours of lecture

Fundamentals of common business applications using MS Windows and MS Office. An overview using Windows to manage files/folders and giving students hands-on experience in word processing, spreadsheet, presentation, and database software. [GE]

COMPUTER BUSINESS APPLICATIONS

BTEC 150 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Introduction to creating business projects with MS Windows and MS Office that emphasize critical thinking and problem-solving skills. Assignments include managing files/folders, creating and formatting Word documents, Excel workbooks, PowerPoint presentations, and Access databases, as well as integrated Office applications; researching and writing an MLA reprot and, in teams, creating and giving a presentation based on research. [GE]

INTERMEDIATE MICROCOMPUTER BUSINESS APPL

BTEC 152 5 Credits

55 hours of lecture

Continuation of BTEC 150, featuring the advanced functions of Microsoft Office software (word processing, spreadsheets, databases, presentations, e-mail, and schedules). Using a set of business related projects, students will work with the advanced features of Microsoft Office through demonstration, tutorials, case assignments, team work, and lecture. Prerequisite: BTEC 150. [GE]

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INTRODUCTION TO OFFICE PUBLISHING TOOLS

BTEC 155 Fall Winter Spring 3 Credits

33 hours of lecture

Introduction to Microsoft Publisher. Focus on creating, saving, printing, and/or publishing flyers, newsletters, Web sites, and various business publications and forms; also applying graphics and publishing standards.

WEB PAGE INTRODUCTION:

BTEC 160 Winter Spring 3 Credits

33 hours of lecture

Introduction to Microsoft Expression Web tools and beginning HTML. Create, save, and print Web pages, use interactive forms on the Web, manage websites, and use Web graphics.

POWERPOINT PRESENTATION

BTEC 165 Fall Winter Spring 3 Credits

33 hours of lecture

Create and deliver electronic business presentations using Microsoft PowerPoint incorporating ethics in infographics. Develop presentation skills using text, graphics, charts, clip art, scanned objects, and embedding or linking media for print, sales presentations, and interoffice electronic communications. Previous experience with Windows environment using Word or Excel is recommended. Same as GRCP 105. Credit not allowed for both BTEC 165 and GRCP 105.

INTRODUCTION TO EXCEL

BTEC 169 Fall Winter Spring 3 Credits

33 hours of lecture

Skills to create, edit, format, and print spreadsheets, tables, graphs and charts using Microsoft Excel; skills to create and edit formulas and simple functions; skills to create, sort, and filter a worksheet databases; skills to PivotTables, templates, and manage multiple worksheets and workbooks. Prior experience with keyboard and/or ten-key by touch and logical thinking are extremely helpful. [GE]

EXCEL FOR BUSINESS

BTEC 170 Fall Winter Spring 3 Credits

33 hours of lecture

Advanced Microsoft Excel skills including creating, editing, and printing professional workbooks, using advanced formulas and charts, auditing and validating worksheet data, and solving complex problems with Excel. Integrating Excel with other office applications and understanding how technology is critical to solving business problems. An introduction to VBA, macros, and making an application in Excel. Prerequisite: BTEC 169 and MATH 065 or equivalent score on COMPASS placement test or consent of Instructional Unit.

ACCESS FOR BUSINESS

BTEC 175 Fall Winter Spring 3 Credits

33 hours of lecture

Introductory and intermediate skills for Microsoft Access for people who use and maintain Access databases. Topics include creation of tables, queries, forms and subforms, reports and subreports, and macros using both design view and wizards. Introduction to special fields such as memos, OLE and drop-down menus within the tables and forms; and using validation rules and referential integrity to insure the data is 'clean'. The course does assume knowledge of Microsoft Windows. Also offered as CTEC 180.

REFRESHER KEYBOARDING

BTEC 190 Summer Fall Winter Spring 1 – 3 Credits
11 hours of lecture 44 hours of lab

Review of keyboard and basic typing applications, development of speed and accuracy. For students who have not typed for several years and need a review. Continuous enrollment, flexible time, individualized program. Satisfactory completion meets prerequisite for BTEC 122, Document Formatting. Register in BTEC 100. Registration will automatically be changed at the end of the quarter. This course is taught on a microcomputer. [GE]

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COOPERATIVE WORK EXPERIENCE

BTEC 199 Fall Winter Spring 1 – 3 Credits

99 hours of clinical

Supervised on-the-job work experience in an approved job in the local community with specific learning objectives and employer evaluation. See Cooperative Education Work Experience description in College Life and Services section of the catalog for more information. Consent of Instructional Unit and concurrent enrollment in accompanying seminar course required. 9 credits maximum.

ADMINISTRATIVE PROCEDURES

BTEC 211 Spring 5 Credits

55 hours of lecture

Overview of current office procedures to equip students with the tools to solve a variety of problems in the changing business world using Microsoft applications. Complete simulated exercises requiring critical thinking, understanding of multicultural relations, and advanced office practices in preparation to work successfully in various office situations.

E-COMMERCE: INTRO TO BUSINESS ON THE WEB

BTEC 212 Spring 3 Credits

33 hours of lecture

Introduction to e-commerce including the evolution of electronic commerce, business-to-business and business-to-customer e-commerce, creating a Web presence, commerce infrastructure and software choices, security and encryption issues, and electronic payment systems. Requires a group project to write a business plan for an online entity. Prior computer class (BTEC 149 or 150), BUS 101, and familiarity with a Web browser recommended. [GE]

SELECTED TOPICS

BTEC 280 1 – 3 Credits

33 hours of lecture

The course focuses on selected topics in Business Technology. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. Individual topics are listed in the quarterly class schedules. [GE]

SPECIAL PROJECTS

BTEC 290 Summer Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the faculty of the department. Prerequisite: Consent of Instructional Unit. [GE]

Business Technology Medical Office

MATH FOR MEDICAL OFFICE ADMINISTRATORS

BMED 040 Fall Winter Spring 1 Credit

11 hours of lecture

Covers basic mathematical concepts related to administrative responsibilities in the medical office. Prerequisite: Qualifying score on the college numerical skills placement for MATH 030 or higher or consent of Instructional Unit.

SURVEY OF HEALTH CARE DELIVERY

BMED 100 Fall Winter 3 Credits

33 hours of lecture

A broad overview of the health care delivery system in the United States. Topics relate to hospital ownership and organization, long-term care facilities, home health agencies, hospices, mental health treatment facilities, ambulatory care and diagnostic centers, and social service agencies; topics related to the medical staff, educational preparation of health care professionals, and medical ethics; the roles of federal and state government in health care, Medicare, Medicaid, and other forms of health care financing. Emphasis on encouraging the student to become an informed consumer, aware of potential problems and frustrations of being a patient.

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MEDICAL TERMINOLOGY I

BMED 110 Summer Fall Winter 3 Credits

33 hours of lecture

Introduction to medical word building with common medical roots, prefixes and suffixes. Study of terms related to the body as a whole, as well as terms related to human anatomy, pathology, diagnostic tests, clinical procedures, and abbreviations associated with each body system. Medical Terminology I covers the following body systems: digestive, urinary, reproductive, nervous, and cardiovascular. Course work will include spelling and pronunciation of terms. [GE]

MEDICAL TERMINOLOGY II

BMED 111 Winter Spring 3 Credits

33 hours of lecture

Continuation of Medical Terminology I, BTEC 110. Study of common medical roots, prefixes and suffixes and terms related to human anatomy, physiology, pathology, diagnostic tests, clinical procedures, and abbreviations associated with each body system. Medical Terminology II covers the following body systems: respiratory, blood, lymphatic, immune, musculoskeletal, integumentary, sense organs (eyes and ears), endocrine, as well as psychiatry. Course work will include spelling and pronunciation of terms. Prerequisite: BTEC 111. [GE]

INTRODUCTION TO THE STUDY OF DISEASE

BMED 112 Summer Winter 5 Credits

55 hours of lecture

Introduction to the general mechanisms of systemic disease including etiology, prognosis, signs and symptoms. Etiology focus will include infectious mechanisms, hereditary contributions, external physical agents and auto immune conditions. Discussion of differences between disease and illness. Topics include basic principles of pharmacology, overview of common therapies, laboratory and diagnostic tests. Concurrent enrollment in BMED 111. Prerequisite: A grade of "C" or better in BMED 110 and BIOL 164/165.

MEDICAL OFFICE ADMINISTRATIVE PROCEDURES

BMED 115 Fall Winter 6 Credits

55 hours of lecture 22 hours of lab

Introduction to the principles, procedures and practice standards of the administrative medical assistant. Study includes: medical reception, telephone reception, appointment scheduling, patient information management, medical record content, quality improvement methods, purchasing office equipment, billing, collecting, medical office accounting, banking procedures, office management, coordination of meetings, and making travel arrangements. The course involves prioritizing work, time management and working as a team member on team projects. Concepts of administrative medical assisting are presented in the class and students will have the opportunity to demonstrate mastery of the competencies. Completion of or concurrent enrollment in BMED 110 required or consent of Instructional Unit. [GE]

MEDICAL REIMBURSEMENT

BMED 129 Fall Spring 5 Credits

55 hours of lecture

Overview of inpatient, outpatient health, insurance plans, revenue cycles, health insurance claims, health insurance terminology, reimbursement methodologies for professional services, completion of CMS/1500 and UB-04 billing forms. Topics include compliance issues, fraud and abuse/HIPAA issues, processing various perspective payment systems. Concurrent enrollment in BMED 111. Prerequisite: BMED 110.

MEDICAL CODING - CPT/HCPCS

BMED 130 Spring 4 Credits

44 hours of lecture

Introduction to coding in ambulatory settings using HCPCS (Health Care Financing Common Procedure Coding System). Common practices, insurance company restraints, and other problems are discussed in relation to coding using HCPCS and ICD-9-CM for records in hospital ambulatory settings, physicians' offices, long-term care, hospice and home health care. Practice in coding from workbook and assigned exercises is emphasized. Coding from selected records from different settings will be performed. Prerequisite: Completion of, or concurrent enrollment in, BIOL 164 or HEOC 100 and BMED 110 or consent of Instructional Unit. [GE]

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MEDICAL CODING ICD-9-CM/ICD-10

BMED 132 Winter 5 Credits

55 hours of lecture

Introduction to use of the ICD-9-CM and ICD-10 (International Classification of Disease, 9th & 10th Edition, Clinical Modification) coding system as it is used in inpatient, ambulatory and long term care. Content and purposes of indexes and registers are reviewed. Implications of diagnostic related groups (DRGs) and other prospective payment systems and their relationships to coding assignments and financing of health care, theory and practice are provided in coding problem solving and data quality content and measures. Prerequisite: A grade of "C" or better in BMED 111.

INTERMEDIATE MEDICAL CODING

BMED 133 Summer Spring 5 Credits

55 hours of lecture

Coding systems used in hospitals, physicians' offices and long-term care sites. Emphasis on ICD-9-CM (International Classification of Diseases, 9th Edition, Clinical Modification) and CPT (Current Procedure Terminology). Topics include content and purposes of disease and procedure indexes, as well as the purposes of abstracting from patient medical records; implications of diagnostic related groups (MS-DRGs) and ambulatory payment classifications (APCs) and their relationship to coding assignment and financing of hospital care; relationships of coding assignment and financing of physician office care; coding problem solving and measures for data quality and compliance. Class activities include coding practice using actual patient records and ICD-9-CM/CPT encoder. Prerequisite: A grade of "C" or better in BMED 129, BMED 130 and BMED 132, or consent of Instructional Unit.

MEDICAL OFFICE SEMINAR

BMED 134 Fall Winter 1 Credit

11 hours of lecture

Overview of student success strategies, library resources, the health care delivery system in the United States and the various employment opportunities in medical office occupations including discussion of job requirements and responsibilities. [GE]

THERAPEUTIC COMM SKILLS FOR HEALTH PROF

BMED 137 Spring 3 Credits

33 hours of lecture

Techniques for encouraging a therapeutic and helping relationship with the client/patient. Includes an overview of the psychosocial development of a person, from birth to death. [GE]

LEGAL ASPECTS OF THE MEDICAL OFFICE

BMED 138 Fall Winter Spring 2 Credits

22 hours of lecture

Introduction to medical law, ethics and bioethics. Topics will include: ethics and bioethics in the practice of medicine, professional codes of ethics, an introduction to law, legal guidelines and the practice of medicine including professional liability, public duties, consents, advance directives, anatomy of a malpractice case, legal aspects of medical records, confidentiality, security of patient information and the release of patient information, patient access to their own medical records, and responding to subpoena duces tecum of medical records. [GE]

CMA EXAMINATION REVIEW SEMINAR

BMED 139 Summer Winter 1 Credit

11 hours of lecture

Review of Medical Assistant administrative and clinical competencies including anatomy and physiology, medical terminology and legal aspects. Discussion of studying and test taking techniques to prepare for Medical Assistant Certification examination. Concurrent enrollment in BMED 166 or consent of Instructional Unit required. Prerequisite: BMED 110, 111, 163, 164, BIOL 160. [GE]

LEGAL ASPECTS OF HEALTH INFORMATION

BMED 140 Fall Winter 2 Credits

22 hours of lecture

Introduction to legal concepts with particular focus on healthcare providers and records generated in the practice

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of medicine, including administration of law, legal and court structure and function, and managing the release of patient information. Topics include liability of hospital and providers of care as well as current pertinent legislation, legal status of medical staff, laws relating to bioethical issues.

MEDICAL OFFICE CLINICAL PROCEDURES I

BMED 163 Winter 6 Credits

44 hours of lecture 44 hours of lab

Principles of medical office clinical procedures including preparing a patient for assisting a physician with examinations, procedures, and components of patient history. Covers charting, vital signs, sterile setups, universal blood precautions and methods of asepsis and sterilization. Topics also include techniques in patient interviewing and education. Lab provides the opportunity for practice and to demonstrate proficiency in procedures. Concurrent enrollment in BTEC 111 required. Prerequisite: BTEC 110 and BIOL& 164 (or BIOL 160), or the consent of the Instructional Unit. [GE]

MEDICAL OFFICE CLINICAL PROCEDURES II

BMED 164 Spring 6 Credits

44 hours of lecture 44 hours of lab

Continuation of Medical Office Clinical Procedures I covering medical office clinical procedures including methods of collecting blood, processing specimens, equipment preparation and operation, electrocariology, medication administration, medical and surgical asepsis. The lab provides an opportunity to practice procedures and demonstrate proficiency. Concurrent enrollment in BTEC 164L. Prerequisite: BTEC 163. [GE]

MEDICAL ASSISTANT DIRECTED PRACTICE

BMED 166 Summer 6 Credits

11 hours of lecture

Supervised medical assistant experience in a health care facility. Provides students with the opportunity to apply knowledge and skill in performing administrative and clinical procedures and in developing professional attitudes for interacting with other professionals and consumers. Written consent of Instructional Unit required. Prerequisite: BTEC 115 and 164 and consent of the Instructional Unit. [GE]

HEALTH INFORMATION PROCEDURES

BMED 222 5 Credits Spring

44 hours of lecture 22 hours of lab

Introduction to health information procedures, principles and practice standards associated with medical record department and health unit coordinator responsibilities. The course explores the licensing, regulation, and accreditation of health care facilities, hospital organization, patient registration, health care statistics, medical record content, medical record assembly, analysis and coding. Course will introduce ICD-9-CM and CPT coding and a review other medical classification and nomenclatures. Health Unit Coordinator responsibilities will be introduced with focus on transcription of physician orders. Prerequisite: BTEC 040. [GE]

BEGINNING MEDICAL TRANSCRIPTION

BMED 223 Winter Spring 2 Credits 44 hours of lab

Machine transcription of medical reports corresponding with the anatomy and terminology studied in BTEC 110, BTEC 111, and either HEOC 100 or BIOL 160. Practice includes transcription of history and physical examinations, consultations, radiology reports, pathology reports, operation reports, autopsies and discharge summaries. Practice will also include proofreading documents for accuracy. Correct format of reports and proper use of references are emphasized. Prerequisite: Completion of, or concurrent enrollment in BTEC 111 and either BTEC 101 or 190, and either HEOC 100 or BIOL \$2.164 (or BIOL 160). [GE]

ADVANCED MEDICAL TRANSCRIPTION

BMED 224 Spring 3 Credits 66 hours of lab

Machine transcription of medical reports corresponding with the anatomy and terminology studied in BTEC 110, BTEC 111, and either HEOC 100 or BIOL 160. Practice includes transcription of history and physical examination, consultations, radiology reports, pathology reports, operation reports, autopsies and discharge summaries. The

course provides additional transcription practice for students who have completed Beginning Medical Transcription, BTEC 223, by transcribing advanced reports. Correct format of reports and proper use of references is emphasized. Prerequisite: BTEC 223. [GE]

DIRECTED PRACTICE

BMED 225 Summer Winter Spring 2 Credits

11 hours of lecture 33 hours of clinical

Supervised learning in a clinic, medical center, or other health care facility, practicing medical office administrative responsibilities. Prerequisite: Consent of Instructional Unit. [GE]

DIRECTED PRACTICE

BMED 226 Summer Winter Spring 3 Credits

11 hours of lecture 66 hours of clinical

Supervised learning in a clinic, medical center, or other health care facility, practicing medical office administrative responsibilities. Prerequisite: Consent of Instructional Unit. [GE]

SELECTED TOPICS

BMED 280 1 – 3 Credits

33 hours of lecture

The course focuses on selected topics in Business Technology. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. Individual topics are listed in the quarterly class schedules. [GE]

SPECIAL PROJECTS

BMED 290 Summer Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the faculty of the department. Prerequisite: Consent of Instructional Unit. [GE]

Chemistry

SKILLS FOR HEALTH CHEMISTRY

CHEM 050 Summer Fall Winter Spring 4 Credits

44 hours of lecture

Prepares students for CHEM& 121-131, for health occupations fields. Unit-factor method in problem solving. Topics include mathematical operations used in chemistry, measurements, density, conversion factors, chemical symbols and terminology, and selected chemical concepts. Prerequisite: Eligibility for MATH 093, 095 or equivalent.

CHEMICAL INSTRUMENTATION

CHEM 107 2 Credits 66 hours of lab

Theory, operation and use of basic laboratory instrumentation. Instruments covered may include infrared spectroscopy, gas-liquid chromatography, atomic absorption spectroscopy, ultraviolet/visible spectroscopy, nuclear magnetic resonance spectroscopy, thin layer chromatography, and PH measurements. Prerequisite: A grade of "C" or better in CHEM& 242 (or CHEM 212) or consent of Instructional Unit.

CHEMICAL CONCEPTS WITH LAB

CHEM& 110 Summer Fall Winter Spring 5 Credits

44 hours of lecture 22 hours of lab

Introductory chemistry course to fulfill the General Education Science with Laboratory requirement, intended for non-science majors who will not take additional chemistry. Focus on unit factor and equation problem solving skills as related to chemical concepts, also stoichiometry and stoichiometric problem solving skills. Topics include the structure of the atom, chemical reactions, and chemical and physical properties to describe matter.

INTRO TO CHEMISTRY: PRE-HEALTH

CHEM& 121 Summer Fall Winter Spring
44 hours of lecture 22 hours of lab

Topics in general chemistry applicable to students seeking a 2-year degree in the health-occupations fields. Unit-factor method is applied to problem solving. Topics covered include units of measurement, atomic structure, chemical bonding, energy, the mole concept, nomenclature of inorganic compounds, writing and balancing equations, properties of gases, solutions and colloids, reaction rates and equilibrium, acids, bases and salts, radiation and health. Completion of elementary algebra recommended. Prerequisite: A grade of "C" or better in CHEM 050 and eligibility for MATH 093/095; or Eligibility for MATH 111. Formerly CHEM 111. [NS,SE]

INTRO TO ORGANIC/BIOCHEM

CHEM& 131 Fall Spring 5 Credits
55 hours of lecture 44 hours of lab

Aspects of organic and biochemistry emphasizing how chemicals affect functioning of the human body. Applicable to students seeking a 2-year degree in the health-occupations fields. Topics covered include aliphatic and aromatic compounds, alcohols, ethers, amines, aldehydes, ketones, carboxylic acids and their derivatives, carbohydrates and carbohydrate metabolism, lipids and lipid metabolism, proteins and protein metabolism, enzymes and hormones, nucleic acids and the chemistry of heredity, body fluids and the human circulation system and nutrition. Prerequisite: Grade of "C" or better in CHEM& 121. Formerly CHEM 112. [NS,SE]

GENERAL CHEMISTRY PREPARATION

CHEM& 139 Summer Fall Spring 4 Credits

44 hours of lecture

For students who lack the necessary background in applied mathematics and chemistry to enroll in the CHEM& 141-142-143 sequence for science and engineering majors. Scientific methods of measurement, theory of atomic structure, properties of elements and compounds, the periodic table, naming compounds and balancing chemical equations, properties of solutions, and properties of gases are covered. Prerequisite: A grade of "C" or better in MATH 093, 095 or equivalent or consent of Instructional Unit. Formerly CHEM 100. [GE, SE]

GENERAL CHEMISTRY I

CHEM& 141 Fall Winter 4 Credits

44 hours of lecture

First of a 3-quarter sequence designed for science and engineering majors. Applications of the scientific method by correlating theory with experimental observation. Topics include systems of measurement, atomic structure, chemical bonding and shape, stoichiometric calculations, properties of gases, nomenclature of inorganic compounds, and writing and balancing equations. Students must also have completed a full year of high school chemistry or CHEM& 139 with a "C" or better. Students will be required to show proof of previous chemistry the first day of class. Concurrent enrollment in CHEM& 151, or consent of Instructional Unit. Prerequisite: Eligibility for MATH 111 and a grade of "C" or better in CHEM& 139 or equivalent, or proof of successful completion of 1-year of high school chemistry within the past 3 years as verified by unit or college advisor.

GENERAL CHEMISTRY II

CHEM& 142 Winter Spring 4 Credits

44 hours of lecture

Second of a 3-quarter sequence designed for science and engineering majors. Applications of the scientific method by correlating theory with experimental observation. Topics include properties of liquids and solids, solutions, equilibria, reaction kinetics, acid-base theories, ionic equilibria and an introduction to organic chemistry. Concurrent enrollment in CHEM& 152, or consent of Instructional Unit. Prerequisite: A grade of "C" or better in CHEM& 141 and CHEM& 151.

GENERAL CHEMISTRY III

CHEM& 143 Summer Spring 4 Credits

44 hours of lecture

Third of a three-quarter sequence designed for science and engineering majors. Applications of the scientific method by correlating theory with experimental observation. Topics include ionic equilibria, thermodynamics,

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5 Credits

nuclear chemistry, electrochemistry, transition metal chemistry, and applications of all chemical concepts to the elements on the periodic table. Concurrent enrollment in CHEM& 153 is recommended. Prerequisite: A grade of "C" or better in CHEM& 142 and CHEM& 152.

GENERAL CHEMISTRY LABORATORY I

CHEM& 151 Fall Winter 1 Credit

33 hours of lab

First of a 3-quarter lab sequence designed for science and engineering majors, to coincide with CHEM& 141 General Chemistry I. Applications of the scientific method by correlating theory with experimental observation. Topics include systems of measurement, observing and affecting chemical reactions, energy considerations, chemical behavior of aqueous systems, the nature of chemical bonding, gas laws, graphing techniques, using technological interfaces to collect and manipulate data, and mathematical calculations to support chemical observations. Students must register for CHEM& 141, or consent of Instructional Unit.

GENERAL CHEMISTRY LABORATORY II

CHEM& 152 Winter Spring 1 Credit 33 hours of lab

Second of a 3-quarter lab sequence designed for science and engineering majors, to coincide with CHEM& 142 General Chemistry II. Applications of the scientific method by correlating theory with experimental observation. Topics include phenomena of solid and liquid states, colligative properties of aqueous and non-aqueous systems, reaction kineics, general equilibria, acid/base equilibria, graphing techniques, using technological interfaces to collect and manipulate data, and mathematical calculations to support chemical observations. Concurrent enrollment in CHEM& 142, or consent of Instructional Unit. Prerequisite: A grade of "C" or better in CHEM& 141 and CHEM& 151, or consent of Instructional Unit.

GENERAL CHEMISTRY LABORATORY III

CHEM& 153 Summer Spring 2 Credits
11 hours of lecture 33 hours of lab

Third of a 3-quarter lab sequence to coincide with CHEM& 143 General Chemistry III for science and engineering majors. Applications of the scientific method by correlating theory with experimental observation. Topics include chemical and ionic equilibria, acid-base theories of aqueous solutions and selected principles of electrochemistry, gravimetric analysis, coordination chemistry, volumetric analysis, inorganic synthesis, and the statistical handling of data. Completion of or concurrent enrollment in CHEM& 143 with a grade of "C" or better. Prerequisite: A grade of "C" or better in CHEM& 142 and CHEM& 152, or consent of Instructional Unit.

COOPERATIVE WORK EXPERIENCE

CHEM 199 Summer Fall Winter Spring 1 – 5 Credits

165 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit. [GE]

ORGANIC CHEMISTRY I

CHEM& 241 Fall 4 Credits

44 hours of lecture

First of a 3-quarter sequence designed for science and engineering majors, or students seeking a career in the health professions. Topics include mechanistic approach applied to hydrocarbons and alkenes, spectroscopic methods, molecular orbitals, hybridization, resonance, acid/base theory, nomenclature, structure and reactivity, kinetic and thermodynamic theories of reactions. Concurrent enrollment in CHEM& 251 is required, or consent of Instructional Unit. Prerequisite: A grade of "C" or better in CHEM& 143, or consent of Instructional Unit. [NS,SE]

ORGANIC CHEMISTRY II

CHEM& 242 Winter 4 Credits

44 hours of lecture

Second of a 3-quarter sequence designed for science and engineering majors, or students seeking careers in the health professions. Topics include organic synthesis and mechanistic approach applied to polar molecules; topics

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may include alcohols, ethers, organometallic compounds, aromatic systems, aldehydes and ketones. Concurrent enrollment in CHEM& 252 is required, or consent of Instructional Unit. Prerequisite: A grade of "C" or better in CHEM& 241 and CHEM& 251, or consent of Instructional Unit.

ORGANIC CHEMISTRY III

CHEM& 243 Spring 4 Credits

44 hours of lecture

Third of a 3-quarter sequence designed for science and engineering majors, or students seeking careers in the health professions. Topics include mechanistic and synthetic approach applied to polar molecules; topics may include reactions of carboxylic acids and derivatives, dicarbonyl componds, amines, conjugated systems, polymer systems and an introduction to biomolecules. Prerequisite: A grade of "C" or better in CHEM& 242 and CHEM& 252, or consent of Instructional Unit.

ORGANIC CHEMISTRY LABORATORY I

CHEM& 251 Fall 1 Credit

44 hours of lab

First of a 3-quarter laboratory sequence designed for science and engineering majors, or students seeking a career in the health professions. Focus on basic organic laboratory techniques such as recrystallizations, melting points, distillations, reflux, extractions, chromatography, and spectroscopy; laboratory notebook-keeping skills and scientific writing methods. Concurrent enrollment in CHEM& 241, or consent of Instructional Unit. Prerequisite: A grade of "C" or better in CHEM& 143 and CHEM& 152, or consent of Instructional Unit.

ORGANIC CHEMISTRY LABORATORY II

CHEM& 252 Winter 1 Credit

44 hours of lab

Second of a 3-quarter laboratory sequence designed for science and engineering majors, or students seeking a career in the health professions. Focus on organic laboratory techniques, spectrosopic characterization of molecules, and introduction to synthetic techniques, including multi-step syntheses and handling moisture- or air-sensitive compounds. Concurrent enrollment in CHEM& 242, or consent of Instructional Unit. Prerequisite: A grade of "C" or better in CHEM& 241 and CHEM& 251, or consent of Instructional Unit.

ORGANIC CHEMISTRY LABORATORY III

CHEM& 253 Spring 2 Credits

11 hours of lecture 44 hours of lab

Third of a 3-quarter sequence designed for science and engineering majors, or students seeking careers in the health professions. Advanced synthetic techniques, project-based experiments and identification. CHEM& 253 replaces CHEM 214 (beginning in Spring 2009). Prerequisite: A grade of "C" or better in CHEM& 242 and CHEM& 252, or consent of Instructional Unit.

SPECIAL PROJECTS

CHEM 290 Summer Fall Winter Spring 1 – 6 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

Chinese

CHINESE I

CHIN& 121 5 Credits

55 hours of lecture

First of a three-quarter sequence in elementary Mandarin Chinese. Emphasis on listening/speaking skills, with additional practice in reading/writing. Course intended for students with little or no previous experience in studying Chinese.

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Communication Studies (Speech)

INTRO TO MASS MEDIA

CMST& 102 3 Credits

33 hours of lecture

Survey of major communication media, print through satellite, their primary functions and social impact. Formerly CMST 120. [HA, SE]

INTRODUCTION TO BROADCASTING

CMST 130 3 Credits

33 hours of lecture

Examination of the broadcasting system; the social and economic forces that shape it and its end product, programming. Analysis of the rights and responsibilities of broadcasters. [SE]

COMPETITIVE SPEAKING AND DEBATE

CMST 171 Fall 3 Credits

33 hours of lecture

For students interested in intercollegiate speech/debate competition. Emphasis on debate/persuasive speaking, attention given to other forms of speech events and tournament management. Prerequisite: A grade of "C" or better in CMST & 220 (or CMST 101), or consent of Instructional Unit. [HB, SE]

COMPETITIVE SPEAKING AND DEBATE

CMST 172 Winter 3 Credits

33 hours of lecture

For students interested in intercollegiate speech/debate competition. Emphasis on informative speaking and interpretive reading. Attention given to debate and other forms of speech events. Prerequisite: A grade of "C" or better in CMST & 220 (or CMST 101), or consent of Instructional Unit. [HB, SE]

COMPETITIVE SPEAKING AND DEBATE

CMST 173 Spring 3 Credits

33 hours of lecture

For students interested in intercollegiate speech/debate competition. Emphasis on audience analysis and other forms of forensics activities. Prerequisite: A grade of "C" or better in CMST 220 (CMST 101) or consent of Instructional Unit. [HB, SE]

COOPERATIVE WORK EXPERIENCE

CMST 199 1 – 5 Credits

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in HDEV 195, 198 or 200 required. Prerequisite: Consent of Instructional Unit. [GE]

INTERPERSONAL COMMUNICATION

CMST& 210 Summer Fall Winter Spring 5 Credits 55 hours of lecture

Person-to-person communication emphasizing theoretical principles and their application. How self-concept, perception, verbal and non-verbal attributes and attitudes influence communication within the family, between friends, and at work. [C, SE, HA]

ORAL COMMUNICATION IN BUSINESS

CMST 212 3 Credits

33 hours of lecture

Principles and practices of speech communication at work. Face-to-face and person-to-group interactions common to organizations and work settings. Credit not allowed for both MGMT 108 and CMST 212. [SE]

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INTERCULTURAL COMMUNICATION

5 Credits CMST 216 Summer Fall Winter Spring

55 hours of lecture

Examination of the impact of culture on communication. Analysis of patterns of communications which affect the ability to establish clear understanding and effective interpersonal relationships. Skills to improve communication across cultural boundaries. [HA, SE]

PUBLIC SPEAKING

CMST& 220 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Introduction to speechmaking based primarily on a traditional public speaking approach. Aids students in developing theoretical understanding and practical application of oral communication skills. Techniques in controlling speech anxiety, how to structure and organize information to present to a variety of audiences; and physical and vocal delivery skills. [C,HA,SE]

SMALL GROUP COMMUNICATION

CMST& 230 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Small group communication emphasizing theoretical principles and their application, enabling students to become more comfortable and competent participants in the group communication process. Emphasis will be on the study and application of the dynamics of group development, problem solving methodologies, and the use of power, including leadership and conflict. Formerly titled CMST 201. Credit not allowed for both CMST 201 and CMST& 230. [C,SE,SS,HA]

INTRODUCTION TO PERSUASION THEORY

CMST 240 5 Credits

55 hours of lecture

A survey of the evaluation of the concepts and techniques of persuasive public address, from the early Greek period through contemporary theorists. A non-public speaking course with the emphasis and focus on the understanding and analysis of persuasive oral discourse. [HA, SE]

WRITING FOR TELEVISION AND FILM

CMST 250 3 Credits

33 hours of lecture

Film and television scriptwriting with emphasis on commercial, dramatic and news formats. Prerequisite: A grade of "C" or better in ENGL& 101 (or ENGL 101). [SE]

COMPETITIVE SPEAKING AND DEBATE

CMST 271 Fall 3 Credits

33 hours of lecture

For students interested in intercollegiate speech/debate competition. Emphasis given to advanced and independent studies in debate and persuasive speaking. Attention given to style. Students will manage the Clark College forensics tournament. Prerequisite: A grade of "C" or better in CMST 171, 172 or 173, or consent of Instructional Unit. [HB, SE]

COMPETITIVE SPEAKING AND DEBATE

CMST 272 Winter 3 Credits

33 hours of lecture

For students interested in intercollegiate speech/debate competition. Emphasis given to advanced and independent studies in informative speaking and interpretive reading. Attention given to style. Prerequisite: A grade of "C" better in CMST 171, 172 or 173, or consent of Instructional Unit. [HB, SE]

COMPETITIVE SPEAKING AND DEBATE

CMST 273 Spring 3 Credits

33 hours of lecture

For students interested in intercollegiate speech/debate competition. Attention given to advanced and independent

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audience analysis and other forensics activities. Prerequisite: A grade of "C" or better in CMST 171, 172 or 173, or consent of Instructional Unit. [HB, SE]

SELECTED TOPICS

CMST 280 5 Credits

55 hours of lecture

The course focuses on selected topics in Communication Studies. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. Individual topics are listed in the quarterly class schedule. [SE]

SPECIAL PROJECTS

CMST 290 1 - 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

Computer Aided Design and Drafting Technology

CADD ORIENTATION

CADD 101 Fall Winter 1 Credit

22 hours of lab

Combination of off-campus field trips to a variety of businesses and on-campus test-drives of several core CADD software applications seen on the field trips. Focus on exposure and orientation to core CADD software applications, and development of an educational plan.

CADD CAREERS

CADD 102 1 Credit Winter Spring

22 hours of lab

Combination of off-campus field trips to a variety of businesses and on-campus test-drives of several core CADD software applications seen on the field trips. Focus on exposure and orientation to core CADD software applications beyond CADD 101 and development of a career plan. Prerequisite: A grade of "C" or better in CADD 101.

BASIC SKETCHUP

CADD 110 4 Credits

16 hours of lecture 55 hours of lab

Basic operations of the current version of SketchUp. Topics include screen features, drawing and editing 3D objects, using and applying material to surfaces, opening and saving files, and using AutoCAD drawing file data. Recommended for anyone comfortable using a PC.

BASIC RHINOCEROS

CADD 120 4 Credits

16 hours of lecture 55 hours of lab

Basic operation of 3D surface modeling software (Rhinoceros) of interest to students in Engineering, CAD, Art, and GRCP. Creating and editing curves, surfaces, solids, set-up textures, and lighting effects. Includes the rendering of 3D objects. Recommended for anyone comfortable using a PC. [GE]

BASIC MICROSTATION

CADD 130 4 Credits

16 hours of lecture 55 hours of lab

Basic operations fo the current version of MicroStation. Covers screen features, command terminology, drawing and editing objects, working with 2D and 3D, using reference files, opening and saving drawing files, and printing. Recommended for anyone comfortable using a PC.

BASIC AUTOCAD

CADD 140 Summer Fall Winter Spring 4 Credits

16 hours of lecture 55 hours of lab

Basic operations of the current version of AutoCAD. Covers screen features, drawing and editing objects, working

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with 2D and 3D, using both model space and layouts, opening and saving files, and using templates. Recommended for anyone comfortable using a PC. [GE]

ARCHITECTURAL DRAFTING 1 W/AUTOCAD

CADD 141 4 Credits

16 hours of lecture 55 hours of lab

Beginning foundations of architectural drafting coupled with intermediate level AutoCAD. Architectural drafting topics include terminology, symbology, typical multi-sheet drawing set for a residence with elevations, site plan, foundation plan, floor plan, roof plan, and related basic residential construction processes. AutoCAD topics include layer management, plotting and plot styles, and using xrefs. Prerequisite: A grade of "C" or better in ENGR 113, and either ENGR 140 or CADD 140.

CIVIL DRAFTING 1 WITH AUTOCAD

CADD 143 4 Credits

16 hours of lecture 55 hours of lab

Beginning foundations of civil drafting coupled with intermediate level AutoCAD. Civil drafting topics include terminology, symbology, survey data, contours, and profiles. AutoCAD topics include layer management, plotting and plot styles, and usine xrefs. Prerequisite: A grade of "C" or better in ENGR 113, and either ENGR 140 or CADD 140.

MECHANICAL DRAFTING 1 WITH AUTOCAD

CADD 144 4 Credits

55 hours of lab 16 hours of lecture

Beginning foundations of mechanical drafting coupled with intermediate level AutoCAD. Mechanical drafting topics include terminology, symbology, fasteners, tolerancing, and related manufacturing processes. AutoCAD topics include layer management, plotting and plot styles, and using xrefs. Prerequisite: A grade of "C" or better in ENGR 113, and either ENGR 140 or CADD 140.

AUTOCAD ARCHITECTURE

CADD 145 4 Credits

16 hours of lecture 55 hours of lab

Basic operations of the current version of AutoCAD Architecture (formerly Architectural Desktop), as used in architectural design and drafting. Topics include screen features, drawing and editing 3D objects, using sheets and views, file management, and using pre-existing AutoCAD drawing file data. Prerequisite: A grade of "C" or better in ENGR 140 (or ENGR 114) or CADD 140.

BASIC SOLIDWORKS

CADD 150 Summer Fall Winter Spring 4 Credits

16 hours of lecture 55 hours of lab

Parametric solids modeling with SolidWorks, covering the breadth of the software at a basic level. Create part, assembly, and drawing files, including design tables and multiple configurations. Recommended for anyone comfortable using a PC. [GE]

MECHANICAL DRAFING 1 WITH SOLIDWORKS

CADD 154 4 Credits

55 hours of lab 16 hours of lecture

Mechanical drafting using SolidWorks. Focus on detailed control in annotating and producing drawings of parts and assemblies. Includes components in mechanical print reading. Prerequisite: A grade of "C" or better in ENGR 113, and either ENGR 150 or CADD 150.

INTERMEDIATE SOLIDWORKS – TOP DOWN DESIGN

CADD 155 4 Credits

55 hours of lab 16 hours of lecture

System design using SolidWorks in the context of an assembly. Focus on complex modeling of parts and assemblies. Prerequisite: CADD 150 or ENGR 150.

INTRODUCTION TO CAM

CADD 160 2 Credits

11 hours of lecture 22 hours of lab

Introduction to CAM software for CNC machine operation. Recommended for anyone comfortable using a PC. [GE]

BASIC REVIT

CADD 170 4 Credits

16 hours of lecture 55 hours of lab

Basic operations of the current version of Revit, as used in architectural design and drafting. Topics include screen features, drawing and editing 3D objects, using sheets and views, file management, and using pre-existing Auto-CAD drawing file data. Recommended for anyone comfortable using a PC.

COOPERATIVE WORK EXPERIENCE

CADD 199 Summer Fall Winter Spring

1 – 5 Credits

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Prerequisite: Consent of instructional unit and completion of or concurrent enrollment in HDEV 195, 198 or 200 required. [GE]

PRESENTATION GRAPHICS

CADD 207 Spring 4 Credits

16 hours of lecture 55 hours of lab

Use of AutoCAD graphics in MS Word documents, lighting and rendering, and explores importation of CAD files into other graphics packages such as Studio 3D MAX. Prerequisite: A grade of "C" or better in CADD 144, CADD 143, CADD 144 or CADD 154. [GE]

ARCHITECTURAL DRAFTING 2

CADD 210 3 Credits

11 hours of lecture 44 hours of lab

Continuance of architectural drafting from CADD 141, with a focus on refinement and using industry standards. Create a drawing set for a residential structure, with review by local professionals. Prerequisite: A grade of "C" or better in CADD 141.

AUTOCAD CUSTOMIZATION

CADD 214 Spring 3 Credits

11 hours of lecture 44 hours of lab

Customizing buttons and toolbars, using AutoLISP to create new AutoCad commands. Introduction to custom dialog boxes. Prerequisite: A grade of "C" or better in CADD 141, CADD 143 or CADD 144. [GE]

CIVIL DRAFTING 2

CADD 230 3 Credits

11 hours of lecture 44 hours of lab

Continuance of civil drafting from CADD 143, with a focus on refinement and using industry standards. Create a drawing set for a residential subdivision, with review by local professionals. Prerequisite: A grade of "C" or better in CADD 143.

MECHANICAL DRAFTING 2

CADD 240 3 Credits

11 hours of lecture 44 hours of lab

Continuance of mechanical drafting from CADD 144 and/or CADD 154, with a focus on refinement and using industry standards. Create a drawing set for a residential subdivision, with review by local professionals. Prerequisite: A grade of "C" or better in CADD 144 or CADD 154.

SELECTED TOPICS

CADD 280 Fall Winter Spring 1 – 5 Credits

55 hours of lecture

Course focuses on selected topics in EMET. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. [GE]

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SPECIAL PROJECTS

CADD 290 Fall Winter Spring 1 – 6 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of instructional unit. [GE]

CADD CAPSTONE PRACTICUM

CADD 299 5 Credits

11 hours of lecture 88 hours of lab

Capstone project to expand knowledge by studying selected CADD topics in selected major area of study (architectural, civil, mechanical, or other) and producing a comprehensive portfolio-documented project. Projects must be pre-approved by the instructor. Prerequisite: Consent of Instructional Unit.

Computer Graphics Technology

GRAPHIC DESIGN TECHNOLOGY I

CGT 100 4 Credits

22 hours of lecture 44 hours of lab

Introduction to the technical tools and procedures used in the graphic design profession. Topics include Mac operating system, file formats, raster/vector graphics, font management, color models, resolution, scanning, digital imaging, copyright, tone and color correction. Hands-on experience with computer graphics and page layout software to learn skills necessary to complete projects in graphic design studio courses.

PHOTOSHOP RASTER GRAPHICS

CGT 101 4 Credits

22 hours of lecture 44 hours of lab

Fundamentals of digital imaging using Adobe Photoshop. Focus on software tools and techniques to capture, correct, create and combine images for print and web. Topics include input devices, resolution, tone and color correction, retouching, painting, drawing, image manipulation, compositing, automation, graphic formats, design and reproduction considerations.

ILLUSTRATOR VECTOR GRAPHICS

CGT 102 3 Credits

22 hours of lecture 22 hours of lab

Fundamentals of vector drawing using Adobe Illustrator. Focus on software tools and techniques to draw, trace, transform and combine graphics for print and web. Topics include drawing tools, path editing, shape manipulation, blending, shading, object layering, typography, graphic formats, design and reproduction considerations.

INDESIGN PAGE LAYOUT

CGT 103 4 Credits

22 hours of lecture 44 hours of lab

Fundamentals of page layout using Adobe InDesign. Focus on software tools and techniques to combine text and graphics into visual layouts for print communications. Topics include document design, color and typographic principles, copyfitting, spatial organization, visual hierarchy, file and font management, prepress issues, marketing and printing considerations.

WEB MULTIMEDIA CONTENT I

CGT 104 4 Credits

22 hours of lecture 44 hours of lab

Introduction to content development strategies used to create and combine multimedia elements for web presentation or mobile communication. Focus on conceptual and visual design, user, client and marketing considerations. Activities include using technologies to produce static and interactive media, motion graphics, 2D animation, integrated audio and visual, and dynamic interfaces.

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USER EXPERIENCE DESIGN

CGT 105 3 Credits

22 hours of lecture 22 hours of lab

Investigation into the field of usability and interaction design. Focus on strategies and best practices to better understand how to create successful user experiences for web presentation or mobile communication. Topics include usability, interactivity, user research, testing scenarios, navigational models, information architecture and interface design. Students will design and conduct usability testing.

SOCIAL MEDIA EXPLORATION

CGT 106 3 Credits

22 hours of lecture 22 hours of lab

Exploration of current practices in the use of social media and internet resources for professional development, networking, collaboration, communication, marketing and advertising. Focus on the strengths, roles and issues of various social media tools. Activities include developing and implementing a social media strategy for personal branding and professional networking.

COOPERATIVE WORK EXPERIENCE

CGT 199 1 – 5 Credits

165 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in HDEV 195, 198 or 200 required. Prerequisite: Consent of Instructional Unit.

GRAPHIC DESIGN TECHNOLOGY II

CGT 200 4 Credits

22 hours of lecture 44 hours of lab

Further study of the technical tools and procedures used in the graphic design profession. Topics include digital workflow, prepress and reproduction requirements, preflight, file submission, font licensing, color management, proofing, paper stock, printing processes and quality issues. Hands-on experience with computer graphics and page layout software to learn skills necessary to complete projects in graphic design studio courses. Prerequisite: A grade of "C" or better in CGT 100.

WEB VIDEO PRODUCTION

CGT 201 4 Credits

22 hours of lecture 44 hours of lab

Fundamentals of video production for web delivery. Focus on all aspects of the video production workflow from concept to capture to multimedia integration and post-production processing. Topics include conceptual design, storytelling, video shooting techniques, non-linear editing, sound editing, media formats, compression and publishing for web presentation. Prerequisite: A grade of "C" or better in CGT 101 or CGT 100.

WEB MULTIMEDIA CONTENT II

CGT 204 4 Credits

22 hours of lecture 44 hours of lab

Further study with content development strategies used to create and combine multimedia elements for web presentation or mobile communication. Focus on conceptual and visual design, user, client and marketing considerations. Topics include advanced use of integrated media technologies, scripting techniques, animation or motion-based strategies, content embedding, dynamic interaction and testing. Prerequisite: A grade of "C" or better in CGT 104.

WEB DESIGN I

CGT 205 4 Credits

22 hours of lecture 44 hours of lab

Fundamentals of web design and site development. Focus on web authoring standards, tools and techniques to conceive, design, produce and publish websites. Topics include client and marketing analysis, information architecture, conceptual and visual design, workflow and team process, coding, content integration and website testing. Prerequisite: A grade of "C" or better in CTEC 122 and CGT 101.

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WEB DESIGN II

CGT 206 4 Credits

22 hours of lecture 44 hours of lab

Further study in web design and site development. Focus on web authoring trends and strategic methodology to better understand how to extend website functionality and value. Topics include strategies such as cross platform and browser compatibility, content management, search engine optimization, site statistics, accessibility, project management and maintenance planning. Prerequisite: A grade of "C" or better in CGT 205.

EMERGING WEB TECHNOLOGIES

CGT 207 3 Credits

22 hours of lecture 22 hours of lab

Exploration and practical examination of emerging web technologies. Focus on exploring, discussing, and researching how evolving and influential technologies are changing the web landscape. Activities include engaging issues and formulating theories relevant to these technologies. Prerequisite: A grade of "C" or better in CGT 205 or consent of Instructional Unit.

PROFESSIONAL PRACTICES

CGT 214 3 Credits

22 hours of lecture 22 hours of lab

Practical experience and understanding of the business of design and freelancing. Emphasis on professional practices and processes. Instructor-supervised professional project development working with clients to design print and web-based communications. May include industry field trips, interviews, research, online or in-person events and team-based projects. Prerequisite: Consent of Instructional Unit.

CAPSTONE PRACTICUM

CGT 240 3 Credits

11 hours of lecture 44 hours of lab

An opportunity to extend your knowledge through the study of selected topics in your major area of study and to produce a comprehensive portfolio project. Projects must be pre-approved with the instructor. Prerequisite: Consent of Instructional Unit.

SELECTED TOPICS

CGT 280 1 – 5 Credits

55 hours of lecture

The course focuses on selected topics in Computer Graphics Technology. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. Individual topics are listed in the quarterly class schedules. Prerequisite: Consent of Instructional Unit.

SPECIAL PROJECTS

CGT 290 1 – 3 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

Computer Science

COMPUTER SCIENCE I C++

CS& 131 Spring 5 Credits

55 hours of lecture

Introduction to the C++ programming language. Emphasis on object-oriented programming (OOP) design principles and their implementation in C++, addressing issues of reusability, efficiency, and style. Prerequisite: A grade of "C" or better in CSE 121 or CTEC 125, or consent of Instructional Unit. [SE]

COMPUTER SCIENCE I JAVA

CS& 141 Fall 5 Credits

55 hours of lecture

Introduction to the Java programming language. Emphasis on object-oriented design and development of portable,

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multithreaded, event-driven software. Prerequisite: A grade of "C" or better in CSE 121 or CTEC 125, or consent of Instructional Unit. [SE]

ENGINEERING AND COMPUTER SCIENCE ORIENTATION

CSE 101 Fall 1 Credit

22 hours of lab

Orientation for students interested in Engineering and Computer Science. Topics include exposure to Engineering and Computer Science educational/career opportunities and challenges, with emphasis on effective planning, communication, teamwork appropriate to these career fields. Credit not allowed for both CSE 101 and ENGR 101.

INTRO TO ELECTRICAL/COMPUTING

CSE 120 Summer Fall Winter Spring 5 Credits

44 hours of lecture 33 hours of lab

Introduction to electrical/computer science and engineering processes, principles, problem-solving techniques, and contemporary tools. Applies in-class learning to hands-on projects and explores current industry trends and implications. Prerequisite: MATH 103.

INTRODUCTION TO C

CSE 121 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Introduction to the C programming language. Emphasis on program design, verification, and testing. Programming related concepts in computer science will be covered. Prerequisite: A grade of "C" or better in MATH& 151 (MATH 113), ENGR 120, CSE 120, ENGR 109 (ENGR 111) or CTEC 121; or consent of Instructional Unit. [SE]

INTRODUCTION TO DATA STRUCTURES

CSE 222 Fall 5 Credits

55 hours of lecture

Fundamentals of data structures and advanced programming techniques used in high-level languages such as C. Topics: trees, heaps, hash tables, sorting, searching, recursion, and algorithm analysis. Prerequisite: A grade of "C" or better in CSE 121 or CTEC 125, or consent of Instructional Unit. [SE]

DATA STRUCTURES & OBJECT-ORIENTED PROGRAMMING

CSE 223 Spring 5 Credits

55 hours of lecture

Study of data structures and the analysis of algorithms, object-oriented programming, concurrency, memory management. Prerequisite: A grade of "C" or better in CSE 222 or CTEC 222, and MATH 205 and MATH& 152 (MATH 211). [SE]

PROGRAMMING TOOLS

CSE 224 Winter 5 Credits

55 hours of lecture

Study of tools and techniques that facilitate programming and debugging, including debuggers, profilers, and scripting. Prerequisite: A grade of "C" or better in CSE 222 or CTEC 222, or consent of Instructional Unit. [SE]

SPECIAL PROJECTS

CSE 290 Summer Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize, and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

Computer Science & Engineering

ENGINEERING AND COMPUTER SCIENCE ORIENTATION

CSE 101 Fall 1 Credit

22 hours of lab

Orientation for students interested in Engineering and Computer Science. Topics include exposure to Engineering

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and Computer Science educational/career opportunities and challenges, with emphasis on effective planning, communication, teamwork appropriate to these career fields. Credit not allowed for both CSE 101 and ENGR 101.

INTRO TO ELECTRICAL/COMPUTING

CSE 120 Summer Fall Winter Spring

44 hours of lecture 33 hours of lab

Introduction to electrical/computer science and engineering processes, principles, problem-solving techniques, and contemporary tools. Applies in-class learning to hands-on projects and explores current industry trends and implications. Prerequisite: MATH 103.

INTRODUCTION TO C

CSE 121 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Introduction to the C programming language. Emphasis on program design, verification, and testing. Programming related concepts in computer science will be covered. Prerequisite: A grade of "C" or better in MATH& 151 (MATH 113), ENGR 120, CSE 120, ENGR 109 (ENGR 111) or CTEC 121; or consent of Instructional Unit. [SE]

INTRODUCTION TO DATA STRUCTURES

CSE 222 Fall 5 Credits

55 hours of lecture

Fundamentals of data structures and advanced programming techniques used in high-level languages such as C. Topics: trees, heaps, hash tables, sorting, searching, recursion, and algorithm analysis. Prerequisite: A grade of "C" or better in CSE 121 or CTEC 125, or consent of Instructional Unit. [SE]

DATA STRUCTURES & OBJECT-ORIENTED PROGRAMMING

CSE 223 Spring 5 Credits

55 hours of lecture

Study of data structures and the analysis of algorithms, object-oriented programming, concurrency, memory management. Prerequisite: A grade of "C" or better in CSE 222 or CTEC 222, and MATH 205 and MATH& 152 (MATH 211). [SE]

PROGRAMMING TOOLS

CSE 224 Winter 5 Credits

55 hours of lecture

Study of tools and techniques that facilitate programming and debugging, including debuggers, profilers, and scripting. Prerequisite: A grade of "C" or better in CSE 222 or CTEC 222, or consent of Instructional Unit. [SE]

SPECIAL PROJECTS

CSE 290 Summer Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize, and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

Computer Technology

INTRODUCTION TO COMPUTING

CTEC 100 Summer Fall Winter Spring

33 hours of lecture

Overview of computer information systems. Introduces computer hardware, communications, systems, and human resources, exploring their integration and application in society. Extensive coverage of terminology. Class constitutes a general introduction to computer systems and how they are used. [SE]

COMPUTING ESSENTIALS

CTFC 101 2 Credits

22 hours of lecture

Introduction to basic skills and problem solving involved with computer hardware, operating systems, and application programs with a special emphasis on conventions and skills universal to a variety of computing settings and

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3 Credits

5 Credits

skills which promote portability between systems and applications. Provides an overview of key skills in a variety of operating system environments and digital interactive settings. Skills and topics include: essential interactions in major operating system environments, basic hardware components of a personal computer system, an overview of file formats and management with an emphasis on backup and portable document strategies, basic interactions in e-mail and worldwide web including how to document and save web pages, and a survey of the purposes of various types of application programs. [GE]

INTRODUCTION TO WINDOWS

CTEC 102 Summer Fall Winter Spring

3 Credits

33 hours of lecture

Introduction to the Windows GUI environment. Topics covered include: Windows startup, desktop and resource management, troubleshooting and Windows utilities. Work with graphics, perform object linking and embedding, and develop familiarity with the resources in Network Neighborhood. [GE]

INTRODUCTION TO MAC/OS

CTEC 103 Fall Winter Spring 3 Credits

33 hours of lecture

Introduction to the Macintosh operating system. Course emphasizes the feel and function of the Macintosh, conveying the Macintosh as a visual environment. Visual cues and identification of the concepts that make a Macintosh unique will be stressed. [GE]

PC SUPPORT CUSTOMER SERVICE SKILLS

CTEC 104 3 Credits

33 hours of lecture

Communication skills for working in a technical environment. Topics covered: professional ethics and behavior, health and safety issues, and developing a service attitude. [GE]

COMMAND LINE ESSENTIALS FOR WINDOWS AND UNIX

CTEC 110 Fall Winter Spring 3 Credits

33 hours of lecture

Preparation to interact with either a Windows System Command Prompt or a UNIX or UNIX-like Shell Prompt as a knowledgeable end-user. Prerequisite: Eligibility for ENGL 098.

INTERNET RESEARCH AND LIVING ONLINE

CTEC 115 Fall Winter Spring 2 Credits

22 hours of lecture

Introduction to global networking and the Internet from the student users' perspective, emphasizing basic skills required to do research and participate as members of the Internet community. Topics include network fundamentals, strategies for locating, analyzing and evaluating information, electronic mail, Internet-based communities, social, legal and ethical issues regarding Internet interactions.

BEGINNING PROGRAMMING

CTEC 120 2 Credits

22 hours of lecture

Introduction to programming concepts central to designing and writing elementary programs using the Alice programming language. Emphasis on problem solving skills; programming assignments require substantial time to complete. Prerequisite: Eligibility for ENGL& 101 and MATH 095.

INTRO TO PROGRAMMING & PROBLEM SOLVING

CTEC 121 Fall Winter Spring 5 Credits

55 hours of lecture

Fundamental concepts related to designing and writing computer programs and procedures. Topics covered include: problem-solving techniques, program design, coding, debugging, testing and documentation. The course stresses concepts common to all programming. Prerequisite: Eligibility for ENGL& 101 and a grade of "C" or better in MATH 095. CTEC 120 recommended. [SE]

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HTML FUNDAMENTALS

CTEC 122

Summer Fall Winter Spring

3 Credits

33 hours of lecture

Introduction to website development through the mastery of the fundamentals of HTML, XHTML, and CSS coding for web pages. Intended to give the student the basic skills required to hand-code web pages from scratch. A four-page website will be developed. Topics include: text editors, essential elements, images, links, lists, forms, tables, and CSS-based page layout. Prerequisite: Eligibility for ENGL& 101 and MATH 095.

VISUAL BASIC .NET I

CTEC 124

5 Credits

55 hours of lecture

Introduction to designing, creating, and debugging Microsoft Windows applications using Visual Basic .Net. Concepts of object oriented programming, user-interface design, and data access are covered. Focuses on developing applications in the Visual Studio.Net environment. Prerequisite: A grade of "C" or better in CTEC 121, or consent of Instructional Unit. [SE]

INTRODUCTION TO WEB SCRIPTING

CTEC 126

5 Credits

55 hours of lecture

Introduction to using scripting to add functionality to HTML documents (Web pages). Includes an overview of current scripting languages and techniques. Prerequisite: A grade of "C" or better in CTEC 121 and CTEC 122. [GE]

INTRODUCTION TO PHP

CTEC 127

4 Credits

44 hours of lecture

Introduction to PHP, a server-side scripting language offering tools for dynamic website development, to create features like shopping carts, login authentication, and database lookups. Topics include HTML/PHP integration, the syntax of PHP, methods of structuring a dynamic website, and how to integrate databases. Prerequisite: A grade of "C" or better in CTEC 121 and CTEC 122. [GE]

INTRODUCTION TO UNIX

CTEC 140

Fall Winter Spring

5 Credits

55 hours of lecture

An introduction to the structure and use of the UNIX operating system. Topics covered include: file management, common utilities, and (basic) shell programming. Prerequisite: A grade of "C" or better in MATH 090 or 091, or consent of Instructional Unit. [GE]

UNIX SYSTEM ADMINISTRATION

CTEC 141

5 Credits

55 hours of lecture

Fundamental concepts, ideas and practices of administrating the UNIX operating system. Topics include account management, file systems, startup and shutdown, printing, security, backups, configuration, optimization and basic networking. Prerequisite: A grade of "C" or better in CTEC 140, or consent of Instructional Unit. [GE]

UNIX POWER TOOLS

CTEC 143

5 Credits

55 hours of lecture

Continuing skills development using various basic UNIX tools in the shell environment; building on skills developed in prerequisite courses, students learn about shell scripts, sed, awk, and regular expressions; preparation for using UNIX or UNIX-like system power tools. Prerequisite: A grade of "C" or better CTEC 121 and CTEC 140, or consent of Instructional Unit. [GE]

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INTRO TO LOCAL AREA NETWORKS

CTEC 150 Fall Winter Spring 3 Credits

33 hours of lecture

Introduction to the terminology, applied concepts and basic operations of local area network systems. Focus on interactions with Windows network servers and peer to peer workstations.

INTRODUCTION TO ACCESS

CTEC 180 Fall Winter Spring 3 Credits

33 hours of lecture

Introductory and intermediate skills for Microsoft Access for people who use and maintain Access databases. Topics include creation of tables, queries, forms and subforms, reports and subreports, and macros using both design view and wizards. Introduction to special fields such as memos, OLE and drop-down menus within the tables and forms; and using validation rules and referential integrity to insure the data is 'clean'.

INTRODUCTION TO DATABASE DESIGN USING ACCESS

CTEC 181 Fall Winter Spring 5 Credits

55 hours of lecture

Database design for those who need to design, create, and maintain databases. Presents the information level databases design concepts relative to any relational database structure (DBMS), and then focuses on the physical level design of a database using MS Access as the DBMS. Topics covered are: Intro to DB Management, The Relational Model Database Normalization Design Methodology, and Creation of Tables, Queries, Forms, Reports and Macros using MS Access. This is a beginning course and requires no prior experience in database design or Access. It does assume prior knowledge or MS Windows. [GE]

COOPERATIVE WORK EXPERIENCE

CTEC 199 Summer Fall Winter Spring 1 – 5 Credits

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Prerequisite: Consent of Instructional Unit and completion of or concurrent enrollment in HDEV 195, 198 or 200 required. [GE]

PC HELP DESK WORK EXPERIENCE

CTEC 200 Fall Winter Spring 1 – 5 Credits

11 hours of lecture

Work experience for Microcomputer Support Specialist students. Students will work at the CTEC Help Desk. Days and times are arranged to meet the students' scheduling needs. Students earning the MCSS degree or MCSS certification are required to sign up for at least 3 credits and will be expected to work 3 hours per week at the Help Desk. Prerequisite: A grade of "C" or better in CTEC 104, or consent of Instructional Unit. [GE]

A+PC OPERATING SYSTEM TECHNOLOGIES

CTEC 201 Fall Winter Spring 5 Credits

55 hours of lecture

Intermediate course in technical topics related to computer operating system fundamentals. Covers installation, configuration and upgrading operating systems. Includes diagnosing problems and general troubleshooting skills. Basic network capabilities of operating systems are covered. Designed to help prepare students for A+ hardware certification exam. Prerequisite: A grade of "C" or better or concurrent enrollment in ELEC 107, or consent of Instructional Unit. [GE]

A+ ESSENTIALS

CTEC 210 Fall Winter Spring 6 Credits

66 hours of lecture

Technical topics related to computer hardware and operating system fundamentals as defined by COMP-TIA A+ certification. Includes identification and installation of hardware; installation, configuration and upgrading operating systems; diagnosing problems and general troubleshooting skills; and basic network capabilities of operating systems. Prerequisite: A grade of "C" or better in CTEC 110.

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DESKTOP SUPPORT ESSENTIALS

CTEC 220 Fall Spring 5 Credits

55 hours of lecture

Introduction to skills and knowledge necessary to support end users by providing direct, front-line, corporate and home end-user support as defined by the Microsoft Desktop Support Technician certification (MCDST). Topics include troubleshooting, hardware and software basics, and elements of desktop support for different versions of MS Windows. Prerequisite: A grade of "C" or better in CTEC 210 or consent of Instructional Unit.

INTERMEDIATE VISUAL BASIC

CTEC 224 5 Credits

55 hours of lecture

Intermediate course in Visual Basic Programming. Topics include: Custom controls, error handling and debugging, interface design, graphics and multimedia, working with databases and Windows API functions. Prerequisite: A grade of "C" or better in CTEC 123, or consent of Instructional Unit. [SE]

C# .NET

CTEC 226 Spring 5 Credits

55 hours of lecture

Fundamental concepts of designing and writing C# ("C-sharp") computer programs. Topics covered include: problem solving techniques, forms and object-oriented program design, coding, debugging, testing and documentation. Emphasizes understanding and use of Visual Studio Integrated Development Environment (IDE). Prerequisite: A grade of "C" or better in CTEC 121. CTEC 124 is recommended.

ADVANCED PHP

CTEC 227 4 Credits

44 hours of lecture

Introduction to advanced coding methods in PHP: XML integration, developing classes, application structures, portability, CVS, security, database connectivity, and the use of advanced features such as image manipulation; emphasis on Internet research for problem solving. Prerequisite: A grade of "C" or better in CTEC 127, or consent of Instructional unit. [GE]

INTRODUCTION TO NETWORK SECURITY

CTEC 230 Fall Winter Spring 5 Credits

55 hours of lecture

Introduction to concepts and fundamentals of network security; topics include attacks, identify theft, and viruses. Focus on activities showing ways hackers enter networks and how security technologies work. Network+ Certification satisfies the prerequisite of CTEC 151. Prerequisite: A grade of "C" or better in DNET 121 or CTEC 151, or consent of Instructional Unit. [GE]

UNIX NETWORK ADMINISTRATION & SECURITY

CTEC 240 5 Credits

55 hours of lecture

Skills development for configuring and administering a TCP/IP network. Topics include configuring basic networking, client services, file sharing services, major network services, cryptography, user, file, and network security, and other relevant topics. Prerequisite: A grade of "C" or better in CTEC 141, or consent of Instructional Unit. [GE]

SCRIPTING WITH PERL

CTEC 241 5 Credits

55 hours of lecture

Introduction to the Perl language in the Unix environment. Topics include text processing, report generation, system administration tasks, and CGI scripting for interactive web pages. Projects emphasize hands-on, practical applications of the language. Previous programming experience and knowledge of basic HTML strongly recommended. Prerequisite: A grade of "C" or better in CTEC 140, or consent of Instructional Unit. [GE]

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MANAGING WINDOWS SERVER 2003 ENVIRONMENT

CTEC 271 5 Credits

55 hours of lecture

Provides students with the knowledge and skills to manage accounts and resources in a Microsoft Windows Server TM 2003 environment; covers tasks for managing users, computer, and group accounts; managing access to network resources; managing printers; managing an organizational unit in a network based on Active Directory TM directory service; and implementing Group Policy to manage users and computers. Network+ Certification satisfies the prerequisite of CTEC 151. A+ Certification satisfies the prerequisite of CTEC 201. This course (along with CTEC 272) will help prepare student for Microsoft Certification Exam #70-290. Concurrent enrollment in CTEC 272 or consent of Instructional Unit. Prerequisite: A grade of "C" or better in CTEC 151 and CTEC 201, consent of Instructional Unit. [GE]

SELECTED TOPICS

CTEC 280 Summer Fall Winter Spring 1 – 6 Credits

66 hours of lecture

Varying topics. May be repeated for credit. Prerequisite: Consent of instructional unit. [GE]

DATABASE IMPLEMENTATION USING ACCESS

CTEC 281 5 Credits

55 hours of lecture

Instruction in advanced database applications and Microsoft extensions. Topics include Visual Basic for applications, Data Access objects, OLE controls, creation of add-ins, security implementation, database replication for synchronization, accessing, external data sources, and managing client/server issues. Prerequisite: A grade of "C" or better in CTEC 181 and CTEC 123, consent of Instructional Unit. [GE]

PROGRAMMING WITH SOL

CTEC 282 5 Credits

55 hours of lecture

SQL language and syntax. Design, installation, and maintenance of the SQL database as a programmatic datasource using Microsoft SQL Server 7.0. Includes programming techniques that integrate SQL Server 7.0 with the Microsoft Active X Data Objects (ADO) and Data Management Objects (DMO) COM libraries. Prerequisite: A grade of "C" or better in CTEC 181 and CTEC 224, or consent of Instructional Unit. [GE]

SPECIAL PROJECTS

CTEC 290 Summer Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize, and complete special projects approved by the department. Prerequisite: Consent of instructional unit. [GE]

CAPSTONE EXPERIENCE

CTEC 295 Summer Fall Winter Spring 1 – 3 Credits

33 hours of lecture

Capstone experience for CTEC degree and certificate, to assess and refine final skill set. Focus on developing and engaging in learning experiences to demonstrate and expand workplace skills and abilities. Development of employment-package resources and job-acquisition strategies. Prerequisite: Consent of Instructional Unit.

Construction Technology

BLUEPRINT READING

CNST 106 Fall Winter 3 Credits

33 hours of lecture

Construction blueprint reading for residential and light commercial. [GE]

JOB ESTIMATING AND SCHEDULING

CNST 108 Winter Spring 3 Credits

33 hours of lecture

Bid preparation activities from initial receipt of drawings and specifications, to the final submission of the bid

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to project owner. Scheduling of subcontractors to complete the project. Prerequisite: CNST 106 or consent of Instructional Unit. [GE]

CONSTRUCTION TECHNOLOGY I

CNST 111 Fall 6 Credits

66 hours of lecture

Basic concepts and theories of residential and commercial construction. Including design, finance, construction (general, mechanical, specialty), and marketing. [GE]

CONSTRUCTION TECHNOLOGY I LAB

CNST 112 Fall 6 Credits

132 hours of lab

Application of the concepts and theories presented in CNST 111. Concurrent enrollment in CNST 111 required. [GE]

CONSTRUCTION TECHNOLOGY II

CNST 121 Winter 6 Credits

66 hours of lecture

Basic concepts and theories of residential and commercial construction including design, finance, construction (general, mechanical, specialty), and marketing. Prerequisite: CNST 111. [GE]

CONSTRUCTION TECHNOLOGY II LAB

CNST 122 Winter 6 Credits

132 hours of lab

Application of the concepts and theories presented in CNST 121. Concurrent enrollment in CNST 121 required. Prerequisite: CNST 112. [GE]

CONSTRUCTION TECHNOLOGY III

CNST 131 Spring 6 Credits

66 hours of lecture

Basic concepts and theories of residential and commercial construction including design, finance, construction (general, mechanical, specialty), and marketing. Prerequisite: CNST 121. [GE]

CONSTRUCTION TECHNOLOGY III LAB

CNST 132 Spring 6 Credits

132 hours of lab

Application of the concepts and theories presented in CNST 131. Concurrent enrollment in CNST 131 required. Prerequisite: CNST 122. [GE]

COOPERATIVE WORK EXPERIENCE

CNST 199 Summer Fall Winter Spring 1 – 5 Credits

165 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit.

CONSTRUCTION TECHNOLOGY IV

CNST 211 Fall 6 Credits

66 hours of lecture

Basic concepts and theories of residential and commercial construction including design, finance, construction (general, mechanical, specialty), and marketing. Prerequisite: CNST 131. [GE]

CONSTRUCTION TECHNOLOGY IV LAB

CNST 212 Fall 6 Credits

132 hours of lab

Application of the concepts and theories presented in CNST 211. Concurrent enrollment in CNST 211 required. Prerequisite: CNST 132. [GE]

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CONSTRUCTION TECHNOLOGY V

CNST 221 Winter 6 Credits

66 hours of lecture

Basic concepts and theories of residential and commercial construction including design, finance, construction (general, mechanical, specialty), and marketing. Concurrent enrollment Lab required. Prerequisite: CNST 211. [GE]

CONSTRUCTION TECHNOLOGY V LAB

CNST 222 Winter 6 Credits

132 hours of lab

Application of the concepts and theories presented in CNST 221. Concurrent enrollment in CNST 221 required. Prerequisite: CNST 212. [GE]

CONSTRUCTION TECHNOLOGY VI

CNST 231 Spring 6 Credits

66 hours of lecture

Basic concepts and theories of residential and commercial construction including design, finance, construction (general, mechanical, specialty), and marketing. Prerequisite: CNST 221. [GE]

CONSTRUCTION TECHNOLOGY VI LAB

CNST 232 Spring 6 Credits

132 hours of lab

Application of the concepts and theories presented in CNST 231. Concurrent enrollment in CNST 231 required. Prerequisite: CNST 222. [GE]

SPECIAL PROJECTS

CNST 290 Summer Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

CPR

COMMUNITY CPR

CPR 031 Summer Fall Winter Spring 0 Credits

4 hours of lecture

Basic heart saver course includes one rescuer, obstructed airway, and manikin practice. Infant resuscitation may be included. Upon completion student will receive a Heart saver card from the American Heart Association.

HEALTHCARE PROVIDER CPR

CPR 032 Summer Fall Winter Spring 0 Credits

5 hours of lecture

CPR for healthcare professionals or students currently enrolled in a healthcare program. Not appropriate for the lay public. American Heart Association certification awarded for successful completion. Includes written and practical test over prudent heart living, one and two person CPR, use of the AED, adult, child and infant CPR including conscious and unconscious obstructed airway. Class held at the NW Regional Training Center, 11606 NE 66th Circle, Vancouver, WA 98662.

CHILD CARE CPR

CPR 033 0 Credits

6 hours of lecture

Pediatric CPR – specifically designed for parents and child care providers. Focus is on home safety, infant and child CPR. This course fulfills the state licensing requirement for child care providers.

Criminal Justice

INTRODUCTION TO CRIMINAL JUSTICE

CJ& 101 Fall Winter 5 Credits

55 hours of lecture

Philosophy and history of criminal justice. Interrelations of police, courts, and corrections. Discussion of career opportunities and qualifications for various careers in criminal justice. Prerequisite: SOC& 101 (SOC 101) or PSYC& 100 (PSYC 101). [SE,SS]

INTRODUCTION TO CORRECTIONS

CJ& 105 Winter 3 Credits

33 hours of lecture

An overview of local, state and federal correctional agencies. The historical development of correctional policies and practices. The exploration of debates surrounding the role and effectiveness of criminal sentences, institutional procedures, technological developments, special populations, etc. [SE, SS]

CUSTOMIZED JOB SKILLS TRAINING

CJST 050 0 Credits

11 hours of lecture

Specific job skills training targeted to the hiring needs of identified employer partners.

CUSTOMIZED JOB SKILLS TRAINING

CJST 051 0 Credits

11 hours of lecture

Specific job skills training targeted to the hiring needs of identified employer partners.

CUSTOMIZED JOB SKILL TRAINING

CJST 052 0 Credits

11 hours of lecture

Specific job skills training targeted to the hiring needs of identified employer partners.

Dental Hygiene

DENTAL HYGIENE COMPETENCIES LAB

DH 013 Summer Fall Winter Spring 1 Credit

22 hours of lab

Application of concepts and topics presented in DH 111, 112, 113, 114, 211, 212, and 213. Continued development of skills and techniques related to dental hygiene competencies. Concurrent enrollments in DH 111, 112, 113, 114, 211, 212 or 213 required.

DENTAL ANATOMY

DH 101 Fall 3 Credits

33 hours of lecture

Anatomy, embryology, and histology of the human dentition and surrounding oral structures as they apply to the practice of dental hygiene. Emphasis on tooth development and associated vocabulary, tooth identification and differentiation, and tooth numbering systems. Prerequisite: Consent of the Dental Hygiene Program. [GE]

HEAD AND NECK ANATOMY

DH 102 Winter 3 Credits

33 hours of lecture 6 hours of lab

Embryological, histological and anatomical development of the head and neck as it applies to the practice of dental hygiene. [GE]

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ORAL HEALTH EDUCATION

DH 103 Spring 2 Credits

22 hours of lecture

Development of skills essential to the dental health educator and dental health resource person. Concepts of teaching, learning and motivation for groups and individuals. [GE]

INTRODUCTION TO DENTAL MATERIALS/ASSISTING

DH 104 Summer Spring 3 Credits

22 hours of lecture 22 hours of lab

Introduction to properties and manipulation of basic restorative materials including resin, bases, liners, varnishes, cements, and sealants. Introduction to four-handed chairside assisting, study model preparation and pit and fissure sealant application. Clinical practice through assisting in restorative situations. [GE]

CLINICAL DENTAL HYGIENE TECHNIQUES I

DH 111 Fall 6 Credits

33 hours of lecture 66 hours of lab

Basic theory and pre-clinical practice at the introductory level in patient assessment, care planning, management, and periodontal therapy, which includes prevention and control of oral disease, and proper safety and infection control procedures. Prerequisite: Consent of the Dental Hygiene Program. [GE]

CLINICAL DENTAL HYGIENE TECHNIQUES II

DH 112 Winter 5 Credits

17 hours of lecture 77 hours of lab

Clinical practice at the introductory level in patient assessment, care planning, management, and periodontal therapy, which includes preventative and control of oral disease, and proper safety and infection control procedures. Prerequisite: DH 111 and Consent of the Dental Hygiene Program. [GE]

CLINICAL DENTAL HYGIENE TECHNIQUES III

DH 113 Spring 5 Credits

17 hours of lecture 77 hours of lab

Clinical practice at the introductory and development levels in patient assessment, care planning, management, and periodontal therapy, which includes prevention and control of oral disease, and proper safety and infection control procedures. Prerequisite: DH 112 and Consent of the Dental Hygiene Program. [GE]

CLINICAL DENTAL HYGIENE TECHNIQUES IV

DH 114 Summer 4 Credits

89 hours of lab

Clinical practice at the introductory and development levels in patient assessment, care planning, management, and periodontal therapy, which includes prevention and control of oral disease, and proper safety and infection control procedures. Concurrent enrollment in DH 114L required. Prerequisite: DH 113 and Consent of the Dental Hygiene Program.

ORAL RADIOLOGY I

DH 122 Winter 3 Credits

22 hours of lecture 22 hours of lab

Radiographic theory, equipment, patient safety, and techniques for exposing, processing, and mounting dental radiographs. Prerequisite: Consent of the Dental Hygiene Program. [GE]

ORAL RADIOLOGY II

DH 123 Spring 1 Credit

22 hours of lab

Second in a series on radiographic theory application and radiographic image interpretation. Continued experience in exposing, processing and mounting, and critiquing dental radiographs. Prerequisite: DH 122 and consent of the Dental Hygiene program. [GE]

ORAL RADIOLOGY III

DH 124 Summer 2 Credits

22 hours of lecture

Third in a series on radiographic theory application and image interpretation. Includes principles of radiation biology, quality assurance, radiation health and protection. Introduction of principles of contemporary panoramic radiographic techniques and comprehensive analysis of panoramic images. Prerequisite: A grade of "C" or better in DH 123 and DH 143.

RESTORATIVE DENTISTRY I

DH 134 Summer 2 Credits

11 hours of lecture 22 hours of lab

Introduction to restorative techniques with emphasis on placement of amalgam and clinical experience with sealant application. Prerequisite: Consent of the Dental Hygiene Program. [GE]

ORAL MEDICINE

DH 141 Fall 2 Credits

22 hours of lecture

Introduction to the evaluation of medical/dental histories in preparation for dental hygiene treatment. Includes the most commonly encountered oral and systemic diseases. [GE]

GENERAL AND ORAL PATHOLOGY

DH 143 Summer Spring 3 Credits

33 hours of lecture

Fundamentals of oral pathology including the inflammatory processes, tumor development, metabolic pathways and developmental disturbances. Prerequisite: Consent of Instructional Unit. [GE]

ETHICS AND THE PROFESSION

DH 152 Winter 1 Credit

11 hours of lecture

Basic ethical principles, ethical problem solving methods, the Principles of Ethics of the American Dental Hygienist Association, and Washington State Laws applicable to the practice of dental hygiene. These elements will enable the student to apply professional attitudes and judgements when treating clinical patients. [GE]

CLINICAL DENTAL HYGIENE TECHNIQUES IV SEM

DH 154 Summer 1 Credit

11 hours of lecture

Clarification and elaboration of topics related to the student's most current clinical skills and experiences. Techniques for treating patients with special needs and importance of providing these patients with complete dental care. [GE]

LOCAL ANESTHESIA & PAIN CONTROL IN DENTISTRY

DH 163 Spring 3 Credits

44 hours of lecture 6 hours of lab

Integration of anatomy, physiology, pharmacology, and emergency procedures as they relate to the administration of local anethesia. Laboratory sessions to develop competency in administering and anesthetic are required. [GE]

PERIODONTICS I

DH 171 Fall 3 Credits

22 hours of lecture 22 hours of lab

Introduction to histological and clinical characteristics of normal and diseased periodontium. Introduction to tooth accumulated materials and preventive oral aids. [GE]

CARIOLOGY

DH 172 Winter 2 Credits

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22 hours of lecture

Presentation of cause, progression, and prevention of dental caries with an emphasis on fluoride. [GE]

NITROUS OXIDE SEDATION

DH 174 Summer 1 Credit

8 hours of lecture 4 hours of lab

Exploration of nitrous oxide sedation as it applies to the practice of dentistry and dental hygiene. Emphasis on patient evaluation, pharmacodymanics, and administration methods and safety issues. Minimum of three clinical patient inductions and recoveries required. Meets multi state licensure requirements for the provisions of nitrous oxide and includes 10 hours of lecture, 3 clinical, and 1 hour written final for a total of 14 hours. Prerequisite: Consent of the Dental Hygiene Program.

PHARMACOLOGY I

DH 181 Fall 1 Credit

11 hours of lecture

Introduction to the classification, pharmacodynamics, dosages, and therapeutic effects of drugs most commonly encountered or prescribed by the dental office. Topics include drugs of abuse, autonomic nervous system, gastrointestinal, respiratory, vitamin, and minerals. Prerequisite: Acceptance into the dental hygiene program.

PHARMACOLOGY II

DH 182 Fall 1 Credit

11 hours of lecture

Continuation of the classification, pharmacodynamics, dosages and therapeutic effects for drugs most commonly encountered or prescribed by the dental office. Topics include antimicrobial, antifungal, and antiviral medications, opioid and non-opioid analgesics, and cardiovascular medications. Prerequisite: DH 181.

PHARMACOLOGY III

DH 183 Fall 1 Credit

11 hours of lecture

Continuation of the classification, pharmacoldynamics, dosages, and therapeutic effects for drugs most commonly encountered or prescribed by the dental office. Topics include endocrine, psychotherapeutic, sedative/hypnotic, anti-anxiety, anticonvulsants, ophthalmic, anti-neoplastic, immune function, anti-Parkinson, and Alzheimer's disease medications. Prerequisite: DH 182.

COOPERATIVE WORK EXPERIENCE

DH 199 Summer Fall Winter Spring 1 – 5 Credits

165 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit. [GE]

DENTAL PUBLIC HEALTH I

DH 201 Fall 2 Credits

11 hours of lecture 44 hours of lab

A systematic approach to the prevention and control of dental disease and the promotion of oral health through organized community efforts. Practical application of public health techniques in the assessment of the community to establish what types of oral health programs are needed. [GE]

DENTAL PUBLIC HEALTH II

DH 202 Winter 2 Credits

11 hours of lecture 44 hours of lab

Continuation of Dental Public Health I. Advanced application of public health concepts to plan, implement and evaluate oral health programs that prevent and control dental disease and promote oral health for a designated population. [GE]

DENTAL PUBLIC HEALTH III

DH 203 Spring 1 Credit

22 hours of lab

Continuation of Dental Public Health II. Implementation and evaluation of oral health programs at a variety of community settings. Formerly titled "Community Dental Health II". [GE]

CLINICAL DENTAL HYGIENE TECHNIQUES V

DH 211 Fall 9 Credits

198 hours of lab

Clinical practice at the development level in patient assessment, care planning, management, and periodontal therapy, which includes prevention and control of oral disease, and proper safety and infection control procedures. Concurrent enrollment in DH 211L required. Prerequisite: DH 114 and consent of the Dental Hygiene Program. [GE]

CLINICAL DENTAL HYGIENE TECHNIQUES VI

DH 212 Winter 9 Credits

198 hours of lab

Clinical practice at the development and competent levels in patient assessment, care planning, management, and periodontal therapy, which includes prevention and control of oral diseases, and proper safety and infection control procedures. Concurrent enrollment in DH 212L required. Prerequisite: DH 211 and Consent of the Dental Hygiene Program. [GE]

CLINICAL DENTAL HYGIENE TECHNIQUES VII

DH 213 Spring 10 Credits

220 hours of lab

Clinical practice at the competent level in patient assessment, care planning, management, and periodontal therapy, which includes prevention and control of oral disease, and proper safety and infection control procedures. Concurrent enrollment in DH 213L required. Prerequisite: DH 212 and Consent of the Dental Hygiene Program. [GE]

RESTORATIVE DENTISTRY II

DH 231 Fall 5 Credits

22 hours of lecture 66 hours of lab

Laboratory practice in expanded duties as allowed by Washington State Law. Emphasis on placement of amalgam and composite restorations. Prerequisite: DH 134 and Consent of the Dental Hygiene Program. [GE]

RESTORATIVE DENTISTRY III

DH 232 Winter 4 Credits

66 hours of lecture 11 hours of lab

Clinical and laboratory practice in expanded duties as allowed by Washington State law; restorative dentistry and associated procedures, dental analgesia, local anesthetic, current dental material evaluation and product selection for use in clinical practice. Prerequisite: DH 231 and Consent of the Dental Hygiene Program. [GE]

RESTORATIVE DENTISTRY IV

DH 233 Spring 3 Credits

11 hours of lecture 44 hours of lab

Further perfection of skills and mastery of clinical and laboratory practice in expanded duties as allowed by Washington State law. Completion of restorative capstone project, encompassing depth and breadth of knowledge acquired from supportive course work. Prerequisite: DH 172, 103, 104, 134, 231, 232 and consent of the Dental Hygiene Program. [GE]

CLINICAL DENTAL HYGIENE TECHNIQUES V SEMINAR

DH 251 Fall 1 Credit

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11 hours of lecture

Expansion of academic, behavioral, and clinical skills necessary for the performance of patient treatment and related activities, through an in-depth independent research project. [GE]

CLINICAL DENTAL HYGIENE TECHNIQUES VI SEM

DH 252 Winter 1 Credit

11 hours of lecture

Expansion of advanced academic, behavioral and clinical skills necessary for the performance of patient treatment and related activities in clinical practice. Research, development and presentation of a table clinic will be the focus of the course. [GE]

CLINICAL DENTAL HYGIENE TECHNIQUES VII SEM

DH 253 Spring 1 Credit

11 hours of lecture

Development of professional and team skills to be utilized when working in the dental hygiene field. Resume preparation and interviewing techniques. [GE]

ETHICS AND PRACTICE MANAGEMENT

DH 263 Spring 1 Credit

11 hours of lecture

Legal and ethical issues related to dental hygiene. Topics include professional and patient relationships, professional associations, state dental hygiene practice acts, career alternatives and lifelong learning. [GE]

PERIODONTICS II

DH 271 Fall 2 Credits

22 hours of lecture

Root morphology and the etiological factors of periodontal diseases. Topics include: host response to, oral structures affected by, the classifications of gingival and periodontal diseases. Current methods and diagnostic aids used to assess and evaluate periodonal disease in a patient will be presented. [GE]

PERIODONTICS III

DH 272 Winter 2 Credits

22 hours of lecture

Subjects covered this quarter will be treatment modalities of periodontal disease to include root planing, antimicrobials, lasers, and surgical procedures; HIV and periodontitis, reevaluation and maintenance procedures for the periodontal involved patient. Prerequisite: DH 271 or consent of Instructional Unit. [GE]

SELECTED TOPICS

DH 280 Summer Fall Winter Spring 1 – 5 Credits

55 hours of lecture

Selected topics in dental hygiene. Topics vary and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit. Specific topics are listed in the quarterly class schedule.

SPECIAL PROJECTS

DH 290 Summer Fall Winter Spring 1 – 15 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

Developmental Education

MATH BASICS I

DVED 021 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Study and application of basic math concepts: addition, subtraction, multiplication, division, fractions, decimals. Prerequite: Recommending score on ASSET placement test or consent of Instructional Unit.

MATH BASICS II

DVED 023 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Analysis and application of basic math concepts and operations emphasizing ratio and proportions, percents, mea-

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surements, and simple equations. Prerequisite: A grade of "C" or better in DVED 021 or consent of Instructional Unit.

ENGLISH BASICS

DVED 094 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Emphasis on writing more fluently, clearly, and correctly. Students build skills through exercises in grammar, writing responses to assigned readings, and planning, organizing, drafting, and revising paragraphs. In-class and out-of-class paragraphs are required. Prerequisite: Recommending score on the College writing skills placement test or consent of Instructional Unit.

SELECTED TOPICS

DVED 099 1 – 5 Credits

55 hours of lecture

Various topics, themes, content in Developmental Education and Reading. Because the content varies, this course is repeatable for credit for different topics.

Diesel Technology

DETROIT DIESEL ELECTRONIC CONTROLS

DIES 093 Winter 3 Credits

33 hours of lecture

A study of Detroit diesel electronic controls (DDEC). Basic system component functions and identification, proper trouble shooting procedures, use of specialized trouble shooting tools and equipment.

CUMMINS ENGINES

DIES 096 3 Credits

33 hours of lecture

Specialized training in Cummins engine theory, troubleshooting, tune-up, maintenance, repair, and safety.

GENERATOR SETS

DIES 097 Spring 3 Credits

33 hours of lecture

Maintenance, troubleshooting, and repair of generator sets. Safety and theory of operation.

CAT ENGINES

DIES 099 3 Credits

33 hours of lecture

Specialized training in Caterpillar engine theory, tune-up, troubleshooting, maintenance, repair, and safety.

DIESEL FUNDAMENTALS

DIES 111 Fall 5 Credits

55 hours of lecture

Introduction to diesel engine construction and principles of operation. Basics of physics and engineering as related to operation of diesel engines. Basic shop tools and safety. [GE]

DIESEL PROCEDURES

DIES 112 Fall 10 Credits

55 hours of lecture 110 hours of lab

Disassembly, inspection, assembly, and adjustment of various diesel engines used in highway and off-highway vehicles. Concurrent enrollment in DIES 111 recommended. [GE]

DIESEL ENGINES/FUEL SYSTEMS

DIES 113 Winter 5 Credits

55 hours of lecture

Repair, adjustment and testing procedures for diesel engines, components and systems. Introduction to fuel systems

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used and electronic controls used on modern diesel engines. Concurrent enrollment in DIES 114 recommended. [GE]

DIESEL PROCEDURES

DIES 114 Winter 10 Credits

55 hours of lecture 110 hours of lab

Test, adjust, and diagnostics of engines and maintenance practices. Concurrent enrollment in DIES 113 recommended. [GE]

DRIVE TRAINS

DIES 115 Spring 5 Credits

55 hours of lecture

Principles of operation and basic construction of drive train components used in on- and off-highway equipment. Concurrent enrollment in DIES 116 recommended. [GE]

DIESEL PROCEDURES

DIES 116 Spring 10 Credits

55 hours of lecture 110 hours of lab

Disassembly, inspection, assembly, and adjustments of drive train components. Concurrent enrollment in DIES 115 recommended. [GE]

WHEEL ALIGNMENT

DIES 118 Spring 3 Credits

22 hours of lecture 22 hours of lab

Automobile chassis, suspension assemblies, steering systems, wheel balancing, wheel alignment, steering, geometry, headlight aiming and safety. [GE]

BASIC ELECTRICAL

DIES 120 Fall 3 Credits

22 hours of lecture 22 hours of lab

Introduction to basic electrical fundamentals needed by technicians to diagnose and repair vehicle electrical systems. Concurrent enrollment in DIES 112.

ELECTRONIC ENGINE MANAGEMENT SYSTEMS

DIES 121 Winter 3 Credits

22 hours of lecture 22 hours of lab

Introduction to electronic engine management systems and emission technology. Concurrent enrollment in DIES 114. Prerequisite: A grade of "C" or better in DIES 120.

ELECTRONIC VEHICLE CONTROL SYSTEMS

DIES 122 Spring 3 Credits

22 hours of lecture 22 hours of lab

Introduction to electronic controls used in diesel and heavy equipment. Concurrent enrollment in DIES 116. Prerequisite: A grade of "C" or better in DIES 120.

INDUSTRIAL HYDRAULICS

DIES 135 Winter 3 Credits

33 hours of lecture

Hands-on experience in recognizing, using, and troubleshooting hydraulic pumps, valves, motors, filters, hoses, piping, and fittings in hydraulic systems. [GE]

COOPERATIVE WORK EXPERIENCE

DIES 199 Fall Winter Spring 1 – 5 Credits

165 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit. [GE]

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ELECTRICAL/ELECTRONIC SYSTEMS

DIES 221 Fall 5 Credits

55 hours of lecture

Charging, starting, lighting, and control circuits and components used on heavy equipment and highway trucks. Concurrent enrollment in DIES 222 recommended. [GE]

DIESEL PROCEDURES

DIES 222 Fall 6 Credits

33 hours of lecture 66 hours of lab

Repair and maintenance of diesel and heavy equipment. Students will participate in customer repair projects. Concurrent enrollment in DIES 221 recommended. [GE]

HYDRAULIC SYSTEMS

DIES 223 Winter 5 Credits

55 hours of lecture

Theory and principles of operation of mobile hydraulic systems. Concurrent enrollment in DIES 224 recommended. [GE]

DIESEL PROCEDURES

DIES 224 Winter 10 Credits

55 hours of lecture 110 hours of lab

Repair and maintenance of diesel and heavy equipment. Students will participate in customer repair projects. Concurrent enrollment in DIES 223 recommended. Prerequisite: DIES 222 or consent of Instructional Unit. [GE]

BRAKES, STEERING, AND SUSPENSION

DIES 225 Spring 5 Credits

55 hours of lecture

Hydraulic and air brake systems, steering and suspension used on highway trucks, and heavy equipment. Concurrent enrollment in DIES 226 recommended. [GE]

DIESEL PROCEDURES

DIES 226 Spring 10 Credits

55 hours of lecture 110 hours of lab

Repair and maintenance of diesel and heavy equipment. Students will participate in customer repair projects. Concurrent enrollment in DIES 225 recommended. Prerequisite: DIES 224 or consent of Instructional Unit. [GE]

SELECTED TOPICS

DIES 280 Summer Fall Winter Spring 1 – 5 Credits

55 hours of lecture

The course focuses on selected topics in Diesel. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. Individual topics are listed in the quarterly class schedule. [GE]

SPECIAL PROJECTS

DIES 290 Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit required. [GE]

Digital Imaging

PATHOPHYSIOLOGY FOR MEDICAL IMAGING

DIMAG 250 3 Credits

33 hours of lecture

Disease etiology and cultural implications; the physiologic effects of disease on body systems and the role of Diagnostic Imaging in diagnosis and treatment.

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COMPUTED TOMOGRAPHY CLINICAL PRACTICUM

DIMAG 271 4 Credits

132 hours of clinical

Clinical Practicum for those seeking ARRT certification in Computed Tomography (CT). This course may be repeated if student does not attain enough competencies to qualify for the ARRT exam during one rotation. Prerequisite: Currently enrolled in or completion of DIMAG 275 and employed as an RT or CNMT or consent of Instructional Unit.

COMPUTED TOMOGRAPHY PHYSICS AND INSTRUMENTATION

DIMAG 275 Winter 3 Credits

33 hours of lecture

Advanced course for those seeking training in Computed Tomography. Open only to those currently registered as Radiologic Technologists or Nuclear Medicine Technologists through ARRT or CNMT. Prerequisite: Currently licensed RTs or CNMTs or permission of Instructional Unit.

MAGNETIC RESONANCE PHYSICS AND INSTRUMENTATION

DIMAG 276 Winter 3 Credits

33 hours of lecture

Introduction to the basic physics of Magnetic Resonance Imaging (MRI) in Diagnostic Imaging. Emphasis on preparation for the ARRT registry in Magnetic Resonance examination. Prerequisite: RT, RDMS, CNMT.

CROSS SECTIONAL ANATOMY FOR IMAGING PROFESSIONAL

DIMAG 279 Fall 3 Credits

33 hours of lecture

Sectional human anatomy of the body in various planes of section using all Diagnostic Imaging modalities. Emphasis on the abdominopelvic cavity and the brain using CT and MRI.

COMPUTED TOMOGRAPHY REGISTRY REVIEW

DIMAG 296 1 Credit

11 hours of lecture

An advanced course for those seeking certification and training in Computed Tomography. Comprehensive review of all major areas indicated on the ARRT CT examination outline. Open to currently working and registered Radiologic Technologists or Nuclear Medicine Technologists with ARRT or CNMT certification.

Drama

INTRO TO THEATRE

DRMA& 101 Fall Winter Spring 3 Credits

33 hours of lecture

Overview of theatre. Roles of the actor, director, designers, and playwrights. Evolution of theatre through the ages. [HA, SE]

ACTING I – DRAMA

DRMA 140 Fall Winter Spring 4 Credits

33 hours of lecture 22 hours of lab

Techniques and principles of acting. [HB, SE]

ACTING II - THEATRE

DRMA 141 Winter 4 Credits

33 hours of lecture 22 hours of lab

Continuation of DRMA 140. Emphasis on scene study, characterization, and period styles of acting. Prerequisite: DRMA 140 (or THEA 140). [HB, SE]

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ACTING III - TELEVISION

DRMA 142 Fall Winter Spring 3 Credits

22 hours of lecture 22 hours of lab

Techniques for television and film performance. Basic production realities relevant to actors. Students will perform before the cameras and, when possible, work behind them. Prerequisite: A grade of "C" or better in DRMA 140 (or THEA 140). [HB, SE]

CHILDREN'S THEATRE I

DRMA 143 Spring 5 Credits

22 hours of lecture 66 hours of lab

College students performing for children. Examine, produce, perform, and tour a play for children. Performances styles for children, touring scenery techniques, and tour management. Formerly THEA 143. [HB, SE]

CHILDREN'S THEATRE II

DRMA 144 Spring 5 Credits

22 hours of lecture 66 hours of lab

College students performing for children. Examine, produce, perform, and tour a play for children. Performance styles for children, touring scenery techniques, and tour management. Prerequisite: DRMA 143 (or THEA 143). [HB,SE]

CHILDREN'S THEATRE III

DRMA 145 Spring 5 Credits

22 hours of lecture 66 hours of lab

College students performing for children. Examine, produce, perform, and tour a play for children. Performance styles for children, touring scenery techniques and tour management. Prerequisite: DRMA 144 (or THEA 144). [HB, SE]

BASIC STAGECRAFT

DRMA 150 Fall 4 Credits

22 hours of lecture 22 hours of lab

Principles and techniques of scenery construction and painting. Students will also learn the use of shop tools. [HB, SE]

STAGE MAKE-UP

DRMA 152 Winter 3 Credits

33 hours of lecture

Design and application of stage make-up. Formerly THEA 152. [HB, SE]

PLAY PRODUCTION AND PERFORMANCE I

DRMA 171 Fall Winter Spring 2 Credits

44 hours of lab

Practical experience with varied aspects of actual theatrical production. Acting, directing, scene construction, lighting, makeup and publicity. Class will begin the third week of the quarter. [HB, SE]

PLAY PRODUCTION AND PERFORMANCE II

DRMA 172 Fall Winter Spring 2 Credits

44 hours of lab

Practical experience with varied aspects of actual theatrical production. Acting, directing, scene construction, lighting, makeup and publicity. Class will begin the third week of the quarter. Prerequisite: DRMA 171 (or THEA 171). [HB, SE]

PLAY PRODUCTION AND PERFORMANCE III

DRMA 173 Fall Winter Spring 2 Credits

44 hours of lab

Practical experience with varied aspects of actual theatrical production. Acting, directing, scene construction, lighting, makeup and publicity. Class will begin the third week of the quarter. Prerequisite: DRMA 172 (or THEA 172). [HB, SE]

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COOPERATIVE WORK EXPERIENCE

DRMA 199 Fall Winter Spring 1 – 5 Credits

165 hours of clinical

Supervised work experience in the community, completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Conset of Instructional Unit. [GE]

IMPROVISATION FOR LIFE AND THEATER

DRMA 240 4 Credits

33 hours of lecture 22 hours of lab

Introduction to theater improvisation techniques for the stage as well as business, educational, and therapeutic settings. Topics cover role plays, theater games, ice breakers, and storytellings. Activities include lecture, demonstration, exercise, and performance. Students both lead and participate in these activities. Students build skills in creativity, spontaneity, facilitation, collaboration, performance, problem-solving, and positive, whole-brained thinking. No acting or improv experience necessary.

CHILDREN'S THEATRE IV

DRMA 243 Spring 5 Credits

22 hours of lecture 66 hours of lab

Study, produce and perform a play for children. Performance styles for children, touring scenery techniques and tour management. Prerequisite: DRMA 145 (or THEA 145). [HB, SE]

CHILDREN'S THEATRE V

DRMA 244 Spring 5 Credits

22 hours of lecture 66 hours of lab

Study, produce and perform a play for children. Performance styles for children, touring scenery techniques and tour management. Prerequisite: DRMA 243 (or THEA 243). [HB, SE]

CHILDREN'S THEATRE VI

DRMA 245 Spring 5 Credits

22 hours of lecture 66 hours of lab

Study, produce and perform a play for children. Performance styles for children, touring scenery techniques and tour management. Prerequisite: DRMA 244 (or THEA 244). [HB, SE]

STAGE LIGHTING DESIGN

DRMA 250 Spring 3 Credits

33 hours of lecture

Techniques and principles of stage and TV lighting design. Use of instruments and light control systems with a special emphasis on computerized light control. [HB, SE]

PLAY PRODUCTION AND PERFORMANCE IV

DRMA 271 Fall Winter Spring 2 Credits

44 hours of lab

Practical experience with varied aspects of actual theatrical production. Acting, directing, scene construction, lighting, makeup and publicity. Class will begin the third week of the quarter. Prerequisite: DRMA 173 (or THEA 173). [HB, SE]

PLAY PRODUCTION AND PERFORMANCE V

DRMA 272 Fall Winter Spring 2 Credits

44 hours of lab

Practical experience with varied aspects of actual theatrical production. Acting, directing, scene construction, lighting, makeup and publicity. Class will begin the third week of the quarter. Prerequisite: DRMA 271 (or THEA 271). [HB, SE]

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PLAY PRODUCTION AND PERFORMANCE VI

DRMA 273 Fall Winter Spring 2 Credits

44 hours of lab

Practical experience with varied aspects of actual theatrical production. Acting, directing, scene construction, lighting, makeup and publicity. Class will begin the third week of the quarter. Prerequisite: DRMA 272 (or THEA 272). [HB, SE]

SELECTED TOPICS

DRMA 280 Summer 1 – 3 Credits

33 hours of lecture

Varying topics in theatre, as listed in the quarterly class schedule. May be repeated for credit. [SE]

SPECIAL PROJECTS

DRMA 290 Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department in the areas of stage direction, scene lighting, costume design, make-up design, production or theatre history. Prerequisite: Consent of Instructional Unit. [GE]

Early Childhood Education

CHILD DEVELOPMENT: BIRTH TO SIX

ECE 100 Summer Fall Winter Spring 3 Credits

33 hours of lecture

Online course in child growth and development from birth to age six years, including physical, emotional, cultural, cognitive, and creative age-related changes. Application to early childhood programs in centers and homes. [GE]

SCIENCE AND MATHEMATICS FOR YOUNG CHILDREN

ECE 102 Spring 3 Credits

33 hours of lecture

Explores the theories, issues and applications of science and math concepts in activities and environments for preschool aged children. Investigates the strategies of teaching through the discovery and use of science and math curriculums in their surroundings. [GE]

CHILD NUTRITION, HEALTH AND SAFETY

ECE 103 Fall 3 Credits

33 hours of lecture

Nutrition, health and safety information for parents, teachers, and others interested in young children. Promoting good eating habits, wholesome foods and menu planning for preschool and day care groups. Creating safe and healthy environments at home and at school. Childhood diseases. [GE]

INDIVIDUALIZED INSTRUCTION I

ECE 105 Winter 2 Credits

22 hours of lecture

Theories and practices for inclusive early childhood education programs. Explores personal perceptions of disabilities and commonly held biases and the impact of environmental influences on ability. Prerequisite: EDUC& 203 (or ECE 104). [GE]

INDIVIDUALIZED INSTRUCTION II

ECE 106 Spring 2 Credits

11 hours of lecture 22 hours of lab

Theories and practices for inclusive early childhood programs. Documents a student's interests, strengths, and needs and develops an inclusion plan that supports those areas. Prerequisite: ECE 105. [GE]

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EARLY CHILDHOOD EDUCATION WORKSHOPS

ECE 111 Fall Spring 1 – 3 Credits

33 hours of lecture

In-service and special topic seminars for those currently working with groups of young children. Each 3-week session is offered for one credit. Students may take any or all of the sessions. A maximum of six credits of ECE 111 may be applied to major area requirements for a degree in Early Childhood Education. [GE]

CURRICULUM AND GUIDANCE FOR SCHOOL-AGERS

ECE 112 Winter 4 Credits

44 hours of lecture

An overview of curriculum and programming for school-agers. Topics include environmental planning and organization, developmentally appropriate practices, guidance practices and the dynamics involved i.e., societal and family culture, documentation, emergent inclusive, and culturally responsive curriculum, the Project Approach, group games, and summer programming. NO onsite lab required for this course; observations conducted at off-site community locations.

ENVIRONMENTS FOR CHILDREN

ECE 114 Summer Fall 3 Credits

33 hours of lecture

Planning physical space appropriate to children's cognitive, physical, and socio-emotional development. Develop an understanding of the role of environments on children's learning and behavior including schedules, materials, room arrangement, and center-based learning. Incorporating diversity through the environment. [GE]

LITERATURE AND STORYTELLING FOR CHILDREN

ECE 116 Spring 3 Credits

33 hours of lecture

An overall look at the role storytelling and literature play in the development of the young child. Focuses on how storytelling and literature impact literacy, aesthetic development, cultural development, as well as how they support the whole child. Includes resources in the community, delivery techniques and how to select appropriate books and literature. [GE]

INTRODUCTION TO EARLY CHILDHOOD EDUCATION

ECE 121 Fall Winter 4 Credits

33 hours of lecture 22 hours of lab

History, philosophy, research, current trends and issues in early education. Developmentally appropriate practices in programs for children aged birth through 6 years. Two hours per week participation in the Early Childhood Education Laboratory School. One observation in an outside agency. [SE]

EARLY CHILDHOOD PROGRAM REG & BEST PRACT

ECE 123 Spring 2 Credits

22 hours of lecture

Overview of the minimum licensing requirements for ECE programs in the State of Washington as well as recommended best practices as set by the National Association for the Education of Young Children and other professional organizations. Includes application of the Americans With Disabilities Act to programs and practices. Covers recognition and reporting of child maltreatment. [GE]

GUIDING BEHAVIOR OF YOUNG CHILDREN

ECE 124 Summer Fall Winter 3 Credits

33 hours of lecture

Developing observational and interpretive skills in the guidance of young children. Specific approaches and guidance techniques. Focus on communication and negotiation skills. Curriculum planning from a developmental multicultural perspective. [GE]

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ISSUES & TRENDS IN EARLY CHILDHOOD EDUCATION

ECE 131 Summer 3 Credits

33 hours of lecture

History, philosophy, research, current trends, and issues in early education. Developmentally appropriate practices in programs for children, birth through 6 years. One outside observation required in an early childhood program. Statewide, on-line only. Credit not allowed for both ECE 121 and 131. [GE]

OBSERVATION, DOCUMENTATION AND RECORDING

ECE 132 Summer Winter 3 Credits

33 hours of lecture

Introduction to age appropriate observation techniques for individual and groups of children in the early learning years, including methods of observations, collecting data, assessment tools and authentic assessment and the issues and trends of data collection in Early Childhood Education.

REFLECTIVE PRACTICES IN EARLY LEARNING

ECE 133 Summer Fall Winter 3 Credits

33 hours of lecture

A comprehensive overview and theoretical exploration of perspectives regarding multiple contexts including race, culture, ethnicity, language, class, gender, sexual orientation, atypical and typical abilities. Focus on biases that may impact learners' work as reflective practitioners working with children and families. Focus on effective anti-bias strategies. Meets General Education transfer requirements.

ADMINISTRATION OF EARLY LEARNING PROGRAMS

ECE 134 Fall 3 Credits

33 hours of lecture

An overview of components necessary for child care personnel (family child care providers and center directors) to open, operate, and manage early learning programs that meet licensing, accreditation and other quality standards with a focus on program administration and operations.

PARTNERSHIPS WITH FAMILIES IN EARLY CARE & EDUC

ECE 135 Fall 3 Credits

33 hours of lecture

Developing effective partnerships with families in early care and education programs. Topics include family-centered theories and practices related to welcoming families and building relationships, communicating, working through conflicts, honoring diversity, family involvement and support, and parent education.

PROGRAMS FOR INFANTS AND TODDLERS

ECE 136 Winter 4 Credits

44 hours of lecture

Principles and theories of infant and toddler implications for curriculum. Focus on responsive learning environment approach that supports infant-toddler growth and total well-being. Includes care-giving practices, the schedule, the routines, the furnishings, and materials.

CHILD DEVELOPMENT: PRENATAL THROUGH AGE EIGHT

ECE 137 Spring 5 Credits

55 hours of lecture

Introduction to the physical, racial, ethnic, cultural, emotional, social, cognitive, and creative development of children from conception through eight years old. This course is designed for those who are majoring in Early Childhood Education or Education.

CHILD DEVELOPMENT: SCHOOL AGE THROUGH ADOLESCENCE

ECE 138 Fall 5 Credits

55 hours of lecture

Introduction to the physical, racial, ethnic, cultural, emotional, social, cognitive, creative development of children in middle childhood through adolescence years. This course is designed for those who are majoring in Early Childhood Education or Education.

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COOPERATIVE WORK EXPERIENCE

ECE 199 Summer Fall Winter Spring

165 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluations. Completion of, or concurrent in, HDEV 195, 198, or 200 required. Prerequisite: ECE 121, 209 and 210, and consent of Instructional Unit. [GE]

CHILD AND FAMILY

ECE 202 Summer Spring 3 Credits

33 hours of lecture

An ecological perspective of the family and the socialization of children. Areas of focus include an examination of family structures, historical and economic perspectives, stressors, family dynamics and multiple perspectives of culture with ensuing impacts on families participating in early childhood programs. [GE]

EARLY LANGUAGE FACILITATION

ECE 208 Winter 2 Credits

22 hours of lecture

A comprehensive overview of early speech and language development. Theoretical exploration of language acquisition in the context of psychosocial, socio-cultural, biosocial, and cognitive development. [GE]

LEARNING EXPERIENCES FOR YOUNG CHILDREN I

ECE 209 Spring 3 Credits

33 hours of lecture

Explore curriculum planning processes with a special focus on an environmental approach using observations of children's play and knowledge of child development. Areas of study include the self, social development, dramatic play, literacy and art. Concurrent enrollment in ECE 210 required. Prerequisite: Completion of, or concurrent enrollment in ECE 124. [GE]

LEARNING EXPERIENCES FOR YOUNG CHILDREN I LAB

ECE 210 Spring 3 Credits

66 hours of lab

Lab experience in Early Childhood Education Laboratory School. Plan, implement and analyze plans in relation to relevant topics in ECE 209. Concurrent enrollment in ECE 209 required. Prerequisite: Completion of, or concurrent enrollment in, ECE 124. [GE]

LEARNING EXPERIENCES FOR YOUNG CHILDREN II

ECE 211 Fall 3 Credits

33 hours of lecture

Further develop curriculum planning processes with a special emphasis on scheduling and project approach planning using observations of children's play and knowledge of child development. Areas of study include science, math, group experiences, music/movement, and outdoors. Conduct case studies and provide peer support and feedback. Concurrent enrollment in ECE 212 required. Prerequisite: ECE 209, or consent of Instructional Unit. [GE]

LEARNING EXP FOR YOUNG CHILDREN II LAB

ECE 212 Fall 3 Credits

66 hours of lab

Lab experience in Early Childhood Education Laboratory School. Plan, implement and analyze plans in relation to relevant topics in ECE 211. Concurrent enrollment in ECE 211 required. Prerequisite: ECE 210, or consent of Instructional Unit. [GE]

LEARNING EXPERIENCES FOR YOUNG CHILDREN III

ECE 213 Winter 3 Credits

33 hours of lecture

Further develop curriculum planning processes with special emphasis on emergent and integrated thematic approaches while applying knowledge of multiple intelligences. Areas of study include parent/teacher relationships, teacher development stages, staff communication and relationships. In-depth study of individual and cultural

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diversity as related to knowledge of child development. Concurrent enrollment in ECE 214 required. Prerequisite: ECE 211, or consent of Instructional Unit. [GE]

LEARNING EXP FOR YOUNG CHILDREN III LAB

ECE 214 Winter 3 Credits

66 hours of lab

Lab experiences in Early Childhood Education Laboratory School. Plan, implement and analyze plans in relation to relevant topics in ECE 213. Concurrent enrollment in ECE 213 required. Prerequisite: ECE 212, or consent of Instructional Unit. [GE]

EARLY CHILDHOOD SEMINAR

ECE 215 Spring 2 Credits

22 hours of lecture

Seminar on professionalism, ethics and issues in teaching and administration. Concurrent enrollment in ECE 199, 15 hours per week required as field placement for students in teaching degree program. Prerequisite: ECE 214, or consent of Instructional Unit. [GE]

SELECTED TOPICS

ECE 280 Fall Winter Spring 1 – 3 Credits

33 hours of lecture

Selected topics in Early Childhood Education as listed in the quarterly class schedule. May be repeated for credit. [GE]

SPECIAL PROJECTS

ECE 290 Fall Winter Spring 1 – 3 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

Economics

INTRODUCTION TO ECONOMICS

ECON 101 Fall Winter Spring 3 Credits

33 hours of lecture

Survey of economics. Key topics include current economic issues and processes related to ways individuals, groups, and whole societies produce, distribute, and utilize economic resources. This course is good preparation for the advanced Microeconomics and Macroeconomics courses. Credit not allowed for both Economics 101 and Economics 110.

ECONOMIC GEOGRAPHY

ECON 107 Spring 5 Credits

55 hours of lecture

Broad patterns, courses, and consequences of interrelationships between economic and geographic forces, processes, and resources. Location of economic activity, population dynamics, strategic resources, global economic flashpoints, patterns/consequences of regional integration. Same as GEOG 107. Credit not allowed for both ECON 107 and GEOG 107. [SE, SS]

INTRODUCTION TO THE GLOBAL ECONOMY

ECON 110 5 Credits

55 hours of lecture

Introduction to economic concepts and their use in the global economy. Topics include basic microeconomics and macroeconomics, international trade, balance of payments, exchange rates, international institutions, energy, war, and terrorism. Intended for economics and non-economics majors. This course is an alternative for Economics 101, with additional topics including in-depth study of international economic issues. Credit not allowed for both Economics 101 and Economics 110. [SE, SS]

THE ECONOMIES OF THE PACIFIC RIM

ECON 111 Fall 5 Credits

55 hours of lecture

The events and people shaping the last 150 years of Asia-Pacific economics and history. Relate these to the shape of the Pacific Basin relationships. Economic resources and interdependence in the Pacific Basin, the United States in the Pacific, the collisions between the East and West, the changing attitudes toward power, authority, democracy, tradition and progress. [SE, SS]

THE ECONOMIES OF THE AMERICAS

ECON 112 Winter 5 Credits

55 hours of lecture

The economies and cultural characteristics of the nations of the United States. Gain an integrated perspective and greater appreciation of the nations which comprise Central and South America, a diverse region which encompasses great wealth and extreme poverty, small and large nations, democratic and totalitarian traditions, and complex multi-cultural heritage. [SE, SS]

INTERNATIONAL ECONOMICS

ECON 120 Spring 3 Credits

33 hours of lecture

International economics, for both economics majors and non-economic majors, emphasizes the fundamental economic concepts for understanding today's global economy. Topics include the basic concepts and tools of international economic analysis, including trade, trade policy, trading blocs, protectionism, exchange rate determination, managing currencies, multi-national corporations, labor, developing countries, and the environment. Prerequisite: A grade of "C" or better in ECON 101. [SE, SS]

MICRO ECONOMICS

ECON& 201 Winter Spring 5 Credits

55 hours of lecture

Essential market processes, structures, issues, and variables governing how individuals, firms and governmental entities allocate resources, produce and distribute goods and services, determine prices, evaluate trade-offs and effectively compete and grow. Prerequisite: ECON 101 or MATH 095 or consent of Instructional Unit. [SE, SS]

MACRO ECONOMICS

ECON 202 Fall Winter 5 Credits

55 hours of lecture

Broad economic principles, issues, structures, processes, and variables governing the dynamics of the United States and global economies. Problems of economic organization, market processes, role of government in the economy and society, money and banking processes and issues, measurement and determination of economic aggregates, fiscal and monetary policies, economic growth and development and international trade. Prerequisite: ECON 101 or MATH 095 or consent of Instructional Unit. [SE, SS]

SELECTED TOPICS

ECON 280 Fall Winter 1 – 5 Credits

55 hours of lecture

Focus on selected topics in Economics. Because the course varies in theme and content, it is repeatable for credit.

SPECIAL PROJECTS

ECON 290 Summer Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

Education

COOPERATIVE WORK EXPERIENCE

EDUC 199 Fall Winter Spring

165 hours of clinical

Supervised work experience in education. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit. [GE]

1 – 5 Credits

INTRODUCTION TO EDUCATION

EDUC& 201 Fall Winter Spring 3 Credits

33 hours of lecture

Overview of education as a discipline, a philosophy, and a profession. Recommended for future teachers and paraeducators. Concurrent enrollment in EDUC 210 required. [SE]

EXCEPTIONAL CHILD

EDUC& 203 Fall 3 Credits

33 hours of lecture

Introduction to various topics regarding children with special needs and exploration of concepts of inclusion and individualized instruction. [GE]

INTRODUCTORY FIELD EXPERIENCE

EDUC 210 Fall Winter Spring 3 Credits

11 hours of lecture 44 hours of lab

Orientation to teaching and life in the American system of schooling. Supervised volunteer field experience with a weekly, one-hour seminar. Concurrent enrollment in EDUC& 201 required. [GE]

Electronics Technology

PROFESSIONAL DEVELOPMENT FOR TECHNICIANS

ELEC 100 Fall 3 Credits

22 hours of lecture 22 hours of lab

Development of skills required for successful job placement and career development in technical occupations. Topics will include resume writing, effective job search techniques, interviewing skills, professional attitudes, business ethics, leadership development, and creating and posting an on-line resume. [GE]

DC FUNDAMENTALS

ELEC 101 Fall Winter 6 Credits

11 hours of lecture 44 hours of lab

Fundamentals of DC circuits with emphasis on algebraic analysis of resistive networks. Includes hands on experience in DC circuit construction, measurement and troubleshooting. Prerequisite: A grade of "C" or better in ENGL 098 or equivalent placement score, MATH 090 or higher. [GE]

AC FUNDAMENTALS

ELEC 102 Fall Winter 6 Credits

44 hours of lecture 44 hours of lab

Fundamentals of AC resistive, capacitive and inductive networks with emphasis placed on methods of analysis and circuit characteristics. Includes hands on experience in AC circuit construction, measurement and trouble shooting. Prerequisite: A grade of "C" or better in ELEC 101 and ENGL 098 or equivalent placement score and MATH 090 or higher. [GE]

INTRODUCTION TO MICROCOMPUTERS

ELEC 111 Winter Spring 3 Credits

11 hours of lecture 44 hours of lab

Introduction to personal computer hardware and system software. Operating systems, PC subsystems including video displays and adapters, disk drives, I/O, and memory expansion. Basic troubleshooting techniques. [GE]

SEMICONDUCTORS I

ELEC 121 Spring 6 Credits

44 hours of lecture 44 hours of lab

Fundamentals and applications of diodes, transistors and special purpose semiconductor devices. Includes hands on experience in semiconductor circuit construction, measurement and trouble shooting. Prerequisite: A grade of "C" or better in ELEC 102 or consent of Instructional Unit. [GE]

COOPERATIVE WORK EXPERIENCE

ELEC 199 Summer Fall Winter Spring 1 – 5 Credits

165 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Consent of Instructional Unit required. [GE]

DIGITAL PRINCIPLES II

ELEC 210 Spring 6 Credits

44 hours of lecture 44 hours of lab

Examines the theory and characteristics of more advanced digital integrated circuits including flip-flops, counters, shift registers, multiplexers, memories, and analog to digital and digital to analog converters. Emphasis is placed on digital devices, circuits and systems in practical applications, and on troubleshooting digital circuits and systems. Prerequisite: A grade of "C" or better in ELEC 209 or concurrent enrollment in ELEC 209 or consent of Instructional Unit. [GE]

PNEUMATICS/HYDRAULICS/VACUUM

ELEC 215 Fall 3 Credits

11 hours of lecture

Theory and principles of basic fluid power, as applied to hydraulic, pneumatic, and vacuum systems. Opportunity to learn fluid power's control and uses, the nomenclature of design, component selection, and the effect on the operation and function of the system. Lecture and demonstrations will be presented. Concurrent enrollment in ELEC 215L required. [GE]

INTRO TO STATISTICAL PROCESS CONTROL

ELEC 240 Fall 5 Credits

55 hours of lecture

Introduction to the foundations of statistics, basics of statistical control, acceptance sampling, types of control charts, manufacturing applications and strategies. Prerequisite: Grade of "C" or better in MATH 099 or eligibility for 100 level Math classes. [GE]

SELECTED TOPICS

ELEC 280 Summer Fall Winter Spring 1 – 6 Credits

66 hours of lecture

Course focuses on selected topics in Electronics. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. [GE]

SPECIAL PROJECTS

ELEC 290 Fall Winter Spring 1 – 3 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

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Emergency Medical Technician (EMT)

EMERGENCY MEDICAL TECHNICIAN – BASIC

EMT 103 10 Credits

66 hours of lecture 66 hours of lab

120 hours of training in emergency procedures and 10 hours of in-hospital observation. Each lesson provides for supervised practice of skills taught in that lesson. As required by the DOT, this course is under the supervision of a physician and lay-coordinator. Meets the requirements of State EMT certification. Must be 18 years of age and have proof of current Healthcare Provider Level CPR (CPR 032) or acquire within the first two weeks of the course. Immunizations must be up-to-date. Students must purchase text available at Clark College Bookstore. Bring text to class. [GE]

Engineering

HP GRAPHING CALCULATOR

ENGR 080 1 Credit

11 hours of lecture

Basic and advanced calculator function. Graphing matrices, statistics, conversions, programming and directories are included. Additional topics are covered as required. Developed to help students become more proficient using their HP calculators. Prerequisite: "C" or better in MATH 030. [SE]

ENGINEERING AND COMPUTER SCIENCE ORIENTATION

ENGR 101 Fall Winter Spring 1 Credit

22 hours of lab

Orientation for students interested in Engineering and Computer Science. Topics include effective planning, communication, teamwork, and exposure to Engineering and Computer Science educational/career opportunities and challenges. Credit not allowed for both ENGR 101 and CSE 101.

INTRODUCTION TO DESIGN

ENGR& 104 Fall Winter Spring 5 Credits

33 hours of lecture 44 hours of lab

Introduction to the engineering method of problem solving through guided Engineering design projects. Focus on developing group skills, understanding the effects of different learning styles, producing strategies for innovation, and fostering creativity in problem solving.

INTRO TO AEROSPACE ENGINEERING

ENGR 107 Spring 2 Credits

11 hours of lecture 22 hours of lab

Introduction to general aerospace industry topics: lift, drag, propulsion, performance, stability and control, design, and testing. Includes a team approach to design activities such as paper aircraft design and high powered rocket construction. Prerequisite: ENGR& 104 (or ENGR 110) or consent of Instructor. [SE]

INTRODUCTION TO ENGINEERING

ENGR 109 Fall Winter Spring 5 Credits

55 hours of lecture

Introduction to the engineering profession: its branches, principles, and practices. Engineering problem-solving, methods of analysis and design, and an introduction to engineering fundamentals. Prerequisite: MATH 103 or equivalent, and completion of, or concurrent enrollment in MATH 111 or equivalent. [SE]

ENGINEERING SKETCHING AND VISUALIZATION

ENGR 113 Fall Winter Spring 2 Credits

11 hours of lecture 22 hours of lab

Engineering communication and graphics through freehand sketching. Visualization and development of orthographic theory, scales, and lettering. Prerequisite: A grade of "C" or better in MATH 095.

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GEOMETRIC DIMENSIONING AND TOLERANCING

ENGR 115 2 Credits

11 hours of lecture 22 hours of lab

Basics of geometric dimensioning and tolerancing: what it is and why use it, GDT symbols and their use, maximum and least material conditions, datums, and geometric characteristics. AutoCAD will be used to dimension drawings using GDT. Prerequisite: A grade of "C" or better in ENGR 113 and either ENGR 140 or ENGR 150. [SE]

INTRO TO ELECTRICAL/COMPUTER SCI & ENGINEERING

ENGR 120 Fall 5 Credits

44 hours of lecture 33 hours of lab

Introduction to electrical engineering, computer science and engineering processes, principles, problem-solving techniques, and contemporary tools. Application of in-class learning to hands-on projects and exploration of current industry trends and implications. Prerequisite: A grade of "C" or better in MATH 103.

FIELD SURVEY I

ENGR 121 Fall 5 Credits

33 hours of lecture 44 hours of lab

Basic theory of surveying, measurement and calculation. Topics include: measurement and determination of boundaries, areas, and shapes; location through traversing techniques; error theory; compass adjustments; public land system; use of programmable calculators; and principles of measurements of distances, elevation and angles. Concurrent enrollment in ENGR 121 lab required. Prerequisite: A grade of "C" or better in MATH& 151 (or MATH 113).

BASIC AUTOCADD

ENGR 140 Fall Winter Spring 4 Credits
16 hours of lecture 55 hours of lab

Basics of AutoCAD, using current version of the software: screen features, drawing and editing objects, working with 2D and 3D, using both model space and layouts, opening and saving files, and using templates. Recommended for anyone comfortable using a PC. [SE]

BASIC SOLIDWORKS

ENGR 150 Summer Fall Winter Spring 4 Credits 16 hours of lecture 55 hours of lab

Parametric solids modeling with SolidWorks, covering the breadth of the software at a basic level. Create part, assembly, and drawing files, including design tables and multiple configurations. Recommended for anyone with good computer skills. [SE]

COOPERATIVE WORK EXPERIENCE

ENGR 199 Summer Fall Winter Spring 1 – 5 Credits

165 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200. Prerequisite: Consent of Instructional Unit. [GE]

ELECTRICAL CIRCUITS

ENGR& 204 Fall 5 Credits

44 hours of lecture 22 hours of lab

Basic concepts of AC and DC electrical circuits. Analyze and design voltage and current relationships for series and parallel RLC circuit. Use of Kirchhoff's laws, Thevenin/Norton theorems, Operational Amplifier circuits, and Step/Natural/Steady-State circuit response. Use of test and measurement equipment in a laboratory setting. Prerequisite: MATH& 152 (or MATH 211).

STATICS

ENGR& 214 Fall Winter 5 Credits

55 hours of lecture

Solution of two and three dimensional vector systems using vector algebra notation and free-body diagrams.

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Friction, centroids, moment of inertia, radius of gyration, and loads involved in structures, machines, and trusses. Prerequisite: MATH& 152 (or MATH 211). [SE]

AUTOCAD CUSTOMIZATION

ENGR 214 Spring 3 Credits

11 hours of lecture 44 hours of lab

Advanced AutoCAD development. Customization and programming AutoLISP. Prerequisite: ENGR 114 or consent of Instructional Unit. [SE]

DYNAMICS

ENGR& 215 Winter Spring 5 Credits

55 hours of lecture

Kinematics and kinetics of particles, systems of particles and rigid bodies. Force/acceleration, work/energy and impulse/momentum problem solving techniques will be applied to two and three dimensional systems. Prerequisite: ENGR& 214 and MATH 152 or (ENGR 211 and MATH 211). [SE]

MATERIALS SCIENCE

ENGR 221 Spring 5 Credits

55 hours of lecture

Basic structure and properties of materials. Phase equilibrium and transformations. Mechanical properties, electronic structure, thermal, electrical, and magnetic properties. Prerequisite: CHEM& 142 (or CHEM 132). [SE]

THERMODYNAMICS

ENGR& 224 Spring 5 Credits

55 hours of lecture

Explores the fundamentals of thermodynamics. Investigates the thermodynamic properties of matter with emphasis on ideal and real gases and introduces the concepts of heat and work. Defines the first and second laws of thermodynamics and explores their impact with examples. Uses thermodynamic cycles to apply the concepts of learned and relates the principles to applications. Prerequisite: MATH 211 and PHYS 201. [SE]

MECHANICS OF MATERIALS

ENGR& 225 Spring 5 Credits

55 hours of lecture

Concepts of stress and strain for deformable objects. Axial, torsional and bending loading, combined loadings. Column loading and stability with other applied topics. Prerequisite: ENGR 211 or ENGR& 214, and MATH 211 or MATH& 152. [SE]

MANUFACTURING PROCESSES

ENGR 239 5 Credits

33 hours of lecture 44 hours of lab

Introduction to manufacturing processes, emphasizing methods and practices used when machining, welding, and fabricating metals and related materials. [SE]

DIGITAL LOGIC DESIGN

ENGR 250 Fall 5 Credits

44 hours of lecture 33 hours of lab

Digital logic design, testing and implementation, including Boolean Algebra, Karnaugh map and design of logic circuits to solve practical problems using sequential/combinational/synchronous/asynchronous circuits, application of standard SSI/MSI/LSI logic systems, design/test/implement development cycle and Hardware Description Language (HDL). Cannot receive credit for both ENGR 237 and ENGR 250. Prerequisite: A grade of "C" or better in ENGR 120 (or CSE 120).

ELECTRICAL CIRCUITS AND SIGNALS

ENGR 252 Winter 5 Credits

44 hours of lecture 33 hours of lab

Continuation of Electrical Circuits. Analysis and design of RLC circuits in sinusoidal steady state, complex-

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frequency domain of linear and lumped parameter circuits, active/passive filter circuits, poly phase and two-port circuits. Application of Fourier series, Fourier transforms and computer tools in circuit analysis. Prerequisite: ENGR& 204 (or ENGR 251). [SE]

SIGNALS AND SYSTEMS

ENGR 253 Spring 5 Credits

44 hours of lecture 33 hours of lab

Concepts and applications in signal processing and linear system theory. Utilization of Fourier Analysis in both continuous and discrete time signals and systems. Role of sampling and the process of reconstructing a continuous-time signal from its samples and basics of communication systems. Application of Laplace transform and Z-transform. Prerequisite: ENGR 252.

DIGITAL SYSTEMS AND MICROPROCESSORS

ENGR 270 Winter 5 Credits

44 hours of lecture 33 hours of lab

Continuation of the Digital Design sequence. Covering synchronous/asynchronous state machines, shift registers, arithmetic circuits and devices, microprocessor internal and system architecture, design and subsystem interfacing, assembly language, and programmable logic devices, design for test, documentation standards, and use of computer-based tools. Prerequisite: A grade of "C" or better in ENGR 250. [SE]

SELECTED TOPICS

ENGR 280 Fall Winter Spring 1 – 5 Credits

55 hours of lecture

The course focuses on selected topics in Engineering. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. [SE]

SPECIAL PROJECTS

ENGR 290 Fall Winter Spring 1 – 6 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

English

WRITING FUNDAMENTALS

ENGL 097 Summer Fall Winter Spring 3 Credits

33 hours of lecture

Emphasis on writing complete, correct sentences and unified, coherent, well-developed paragraphs. Short essays and selected readings assigned. Students build skills through pre-writing, drafting, revising, and editing. In-class and out-of-class essays required. Prerequisite: Recommending score on the College writing skills placement test for ENGL 097.

WRITING FUNDAMENTALS

ENGL 098 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Emphasis on expository writing and increasing control of grammar and mechanics. Skills include summarizing and writing essays. Students develop skills through pre-writing, drafting, revising, and editing. In-class and out-of-class essays required. Prerequisite: A grade of "C" or better in ENGL 097, or recommending score on the College writing skills placement test for ENGL 098.

ENGLISH COMPOSITION I

ENGL& 101 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Exposition and argument, emphasizing critical thinking in response to electronic and print texts. Focus on exploring, developing, and communicating ideas in a voice appropriate to the audience. Students strengthen skills through pre-writing, drafting, revising, and editing. In-class and out-of-class essays required. Prerequisite: A grade

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of "C" or better in ENGL 098 taken at 5 credits or recommending score on the writing skills placement test for ENGL 101. [C, SE]

ENGLISH COMPOSITION II

ENGL& 102 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Continued studies in exposition and argument emphasizing the research paper. Focus on analysis and synthesis of electronic and print texts in the context of supporting the writer's ideas with appropriate documentation. Students refine skills through pre-writing, drafting, revising, and editing. Prerequisite: A grade of "C" or better in ENGL 101. [C, SE]

ADVANCED ENGLISH COMPOSITION

ENGL 103 3 Credits

33 hours of lecture

Emphasis on composing essays on complex ideas of cultural importance. Assignments based on reading and research in art, science, philosophy, and politics. Prerequisite: ENGL& 102 (or ENGL 102). [C, SE]

ENGLISH GRAMMAR

ENGL 105 Spring 5 Credits

55 hours of lecture

Description and analysis of the structure of English language, using traditional grammar and syntax. Designed to fulfill the grammar requirement for English majors seeking Washington State teacher certification in English. [SE]

WRITING ABOUT FILM

ENGL 108 3 Credits

33 hours of lecture

Focus on writing effective research essays analyzing international films. Emphasis on the composition process and the development of writing skills and evaluation sources, including prewriting, drafting, revising, editing, and documenting. Introduction to film terminology and techniques and the major approaches used in writing essays about films, including film history, national cinemas, genres, auteurism, and formalism, and ideological studies. Prerequisite: A grade of "C" or better in ENGL& 101.

WRITING ABOUT THE SCIENCES

ENGL 109 Fall Winter Spring 5 Credits

55 hours of lecture

Continued studies in writing expository essays, focusing on topics in the life sciences and physical sciences. Emphasis on critical reading of published scientific research and appropriate use of peer-reviewed journals to support the writer's ideas. Expanding academic writing skills of pre-writing, drafting, revising, editing, and documenting. Prerequisite: A grade of "C" or better in ENGL& 101 (or ENGL 101).

COMPOSITION FOR LITERATURE

ENGL 110 5 Credits

55 hours of lecture

Continued studies in writing essays of exposition and argument emphasizing the interpretation of literature, with focus on critical reading of literary texts using theories and appropriate use of documented sources to support the writer's ideas. Expanding academic writing skills of pre-writing, drafting, revising, editing, and documenting. Prerequisite: ENGL& 101 (ENGL 101).

CREATIVE WRITING

ENGL 121 Fall 3 Credits

33 hours of lecture

Students may restrict themselves to writing poetry, short stories, plays or may choose to work in several forms. Helps students determine what they will say and how they will say it. Prerequisite: A grade of "B" or better in ENGL 098, a grade of "C" or better in ENGL 099, or recommending score on the college writing skills placement test for ENGL& 101 (ENGL 101). [HB, SE]

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CREATIVE WRITING

ENGL 122 Winter 3 Credits

33 hours of lecture

Students may write poetry, short stories, plays or may choose to work in several forms. Helps students determine what they will say and how they will say it. Prerequisite: A grade of "B" or better in ENGL 098, a grade of "C" or better in ENGL 099, or recommending score on the college writing skills placement test for ENGL& 101 (or ENGL 101). [HB, SE]

CREATIVE WRITING

ENGL 123 Spring 3 Credits

33 hours of lecture

Students may write poetry, short stories, plays or may choose to work in several forms. Helps students determine what they will say and how they will say it. Prerequisite: A grade of "B" or better in ENGL 098, a grade of "C" or better in ENGL 099, or a recommending score on the college writing skills placement test for ENGL& 101 (or ENGL 101). [HB,SE]

FICTION WRITING

ENGL 125 Fall Winter Spring 3 Credits

33 hours of lecture

Fundamentals of writing fiction with an emphasis on short fiction. Writing workshop format. Develops skills for critiquing student fiction and introduces publication strategies. Completion of ENGL 101 recommended, but not required.

POETRY WRITING

ENGL 126 Spring 3 Credits

33 hours of lecture

Class discussion of student work, development of tools for self-criticism, and strategies for getting poetry published. [HB, SE]

INTRODUCTION TO LITERATURE

ENGL 130 Fall Winter Spring 3 Credits

33 hours of lecture

An introduction to poetry, fiction, and dramatic literature, and to the language and principles of literary analysis. [HA, SE]

INTRODUCTION TO POETRY

ENGL 131 Fall Winter Spring 3 Credits

33 hours of lecture

Study of poetry, poetic forms, and the language and principles of literary analysis. [HA, SE]

INTRODUCTION TO DRAMATIC LITERATURE

ENGL 132 3 Credits

33 hours of lecture

Study of drama as both literature and theater, from historical, philosophical and artistic perspectives. [HA, SE]

INTRODUCTION TO FICTION

ENGL 133 Fall Winter Spring 3 Credits

33 hours of lecture

Study of fiction in both short story and novel form, including classic and contemporary examples. Introduction to the language and principles of literary analysis. [HA, SE]

INTRODUCTION TO TECHNICAL WRITING

ENGL 135 Fall Winter Spring 5 Credits

55 hours of lecture

Introduction to principles for developing work-world documents, with emphasis on writing business letters, memorandums, resumes, instructions, summaries, proposals, and informal reports. For students of all scientific, technical,

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and professional fields. Prerequisite: A grade of "C" or better in ENGL 098 taken at 5 credits, or recommending score on COMPASS.

WOMEN IN LITERATURE

ENGL 140 Spring 3 Credits

33 hours of lecture

Study of fiction, nonfiction, poetry, and drama written by women reflecting the female experience. [HA, SE]

SCIENCE FICTION AND FANTASY

ENGL 143 Fall 3 Credits

33 hours of lecture

Study of speculative fiction from fantasy to hard science with attempts to define its particular qualities and place in modern literature. [HA, SE]

DETECTIVE FICTION

ENGL 145 3 Credits

33 hours of lecture

Introduction to detective fiction, its typical styles and techniques, its interactive nature, and its capacity for social critique. Topics include early detective authors and the evolution of the popular image of the detective in American and British cultures.

INTRODUCTION TO CLASSICAL MYTHOLOGY

ENGL 150 Winter 3 Credits

33 hours of lecture

Study of significant world myths, including their sources and literary expressions. [HA, SE]

THE BIBLE AS LITERATURE

ENGL 152 3 Credits

33 hours of lecture

Study of the varied genres of Biblical literature from literary, historical, and cultural perspectives. [HA, SE]

INTRODUCTION TO THE NOVEL

ENGL 156 Winter Spring 3 Credits

33 hours of lecture

Study of the novel from historical, artistic, and thematic perspectives. Introduction to the language and principles of literary analysis.

COOPERATIVE WORK EXPERIENCE

ENGL 199 1 – 5 Credits

165 hours of clinical

For students interested in careers that emphasize writing, co-op work experience offers credit for supervised work in writing-related jobs. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit. [GE]

BUSINESS COMMUNICATIONS

ENGL 212 Fall Winter Spring 3 Credits

33 hours of lecture

Developing proficiency in written and oral communications appropriate for business by composing, organizing, and editing letters, reports, memos, emails, and presentations from a variety of business cases and managerial interviews. Emphasis on team work, collaboration, diversity, intercultural communication, and the delivery of oral presentations, using specialized software. Same as BUS 211. Prerequisite: ENGL& 101 (ENGL 101) or consent of Instructional Unit. [GE, SE]

TECHNICAL WRITING

ENGL& 235 5 Credits

55 hours of lecture

Study of advanced writing skills for typical work-world documents in a business/technical environment, with em-

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phasis on document format, audience analysis, correspondence, formal and informal reports, research, and documentation. Prerequisite: A grade of "C" or better in ENGL & 101 or ENGL 135.

INTRODUCTION TO QUEER LITERATURE

ENGL 254 Winter 3 Credits

33 hours of lecture

An introductory survey of literature relevant to the gay, lesbian, bisexual, and trans communities and their historical predecessors from pre-modern times to the present. Prerequisite: College level reading and writing recommended.

WORLD LITERATURE

ENGL 260 Fall 3 Credits

33 hours of lecture

Masterpieces of the Ancient World through the fourteenth century. Literature is read within its historical and cultural setting. Eligibility for ENGL& 101 (or ENGL 101) recommended. [HA, SE]

WORLD LITERATURE

ENGL 261 Winter 3 Credits

33 hours of lecture

Masterpieces from the fifteenth century through the eighteenth century. Literature is read within its historical and cultural settings. Eligibility for ENGL & 101 (or ENGL 101) recommended. [HA, SE]

WORLD LITERATURE

ENGL 262 Spring 3 Credits

33 hours of lecture

Masterpieces of world literature from the nineteenth century through the contemporary period. Literature is read within its historical and cultural settings. Eligibility for ENGL& 101 (or ENGL 101) recommended. [HA, SE]

BRITISH LITERATURE

ENGL 264 Fall 3 Credits

33 hours of lecture

Classics of British literature from the eighth to the seventeenth century. Literature is read within its historical and cultural settings. Eligibility for ENGL& 101 (or ENGL 101) recommended. [HA, SE]

BRITISH LITERATURE

ENGL 265 Winter 3 Credits

33 hours of lecture

Classics of British literature from the seventeenth to the nineteenth century. Literature is read within its historical and cultural setting. Eligibility for ENGL& 101 (or ENGL 101) recommended. [HA, SE]

BRITISH LITERATURE

ENGL 266 Spring 3 Credits

33 hours of lecture

Classics of British literature from the nineteenth century to the present. Literature is read within its historical and cultural settings. Eligibility for ENGL& 101 (or ENGL 101) recommended. [HA, SE]

AMERICAN MULTIETHNIC LIT

ENGL 267 3 Credits

33 hours of lecture

Survey of American multiethnic writing from Civil Rights era to the present. Emphasis on writings as a "window" to American ethnic experience, culture, and history within larger American historical contexts, encouraging students to develop understanding of political, social, and historic climate as it helps shape and is shaped by literature.

AMERICAN LITERATURE

ENGL 268 Fall 3 Credits

33 hours of lecture

Survey of American writing from the colonial period to the Civil War. Literature is read within its historical and cultural setting. Eligibility for ENGL 101 (or ENGL 101) recommended. [HA, SE]

AMERICAN LITERATURE

ENGL 269 Winter 3 Credits

33 hours of lecture

Survey of American writing from the Civil War through World War I. Literature is read within its historical and cultural setting. Eligibility for ENGL& 101 (ENGL 101) recommended. [HA, SE]

AMERICAN LITERATURE

ENGL 270 Spring 3 Credits

33 hours of lecture

Survey of American writing from World War I to the present. Literature is read within its historical and cultural setting. Eligibility for ENGL& 101 (ENGL 101) recommended. [HA, SE]

INTRODUCTION TO SHAKESPEARE

ENGL 272 Winter Spring 3 Credits

33 hours of lecture

Readings of selected tragedy, comedy and historical plays of Shakespeare. Eligibility for ENGL & 101 (ENGL 101) recommended. [HA, SE]

FICTION WRITING

ENGL 275 Fall Winter Spring 3 Credits

33 hours of lecture

Fundamentals of writing fiction with an emphasis on short fiction. Writing workshop format. Develops skills for critiquing student fiction and introduces publication strategies. Completion of ENGL 101 recommended, but not required.

POETRY WRITING

ENGL 276 Spring 3 Credits

33 hours of lecture

Continuation of ENGL 126. Further development of the principles of writing and marketing poetry. Prerequisite: ENGL 126. [HB, SE]

SELECTED TOPICS

ENGL 280 1 – 3 Credits

33 hours of lecture

Course focuses on selected topics in English. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. [SE]

SPECIAL PROJECTS

ENGL 290 1 – 5 Credits

Opportunity to plan, organize, and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

English as a Non-Native Language

CULTURE IN THE USA

ENL 030 Fall Winter Spring 1 Credit

11 hours of lecture

Orientation to SW Washington life and to American college life. Activities include the written and the unwritten rules of communication and sharing cultures. Prerequisite: Qualifying score on ENL placement test or consent of ENL Department or International Advising.

COMPUTER LITERACY FOR ENL STUDENTS

ENL 033 Fall Winter Spring 1 Credit

11 hours of lecture

Introduction to Internet, word processing and e-mail. Prerequisite: Qualifying score on ENL placement test or consent of ENL Department or International Advising.

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GRAMMAR 3

ENL 053 3 Credits Fall Winter Spring

33 hours of lecture

Intermediate grammar course focusing on the application and correct use of grammar when speaking and writing fairly simple academic English. Prerequisite: A grade of "C" or better in ENL 072 or qualifying score on ENL placement test or consent of ENL Department or International Advising.

GRAMMAR 4

ENL 054 Fall Winter Spring 3 Credits

33 hours of lecture

Intermediate grammar course focusing on the application and correct use of English grammar when communicating complex thoughts in writing or in spoken form. Prerequisite: A grade of "C" or better in ENL 053 or qualifying score on ENL placement or consent of ENL Department or International Advising.

GRAMMAR 5

ENL 055 Fall Winter Spring 3 Credits

33 hours of lecture

Continuation of ENL 054. Advanced study of English grammar and its structure with emphasis on application. Prerequisite: A grade of "C" or better in ENL 054 or qualifying score on ENL placement test or consent of ENL Department or International Advising.

READING, LISTENING AND SPEAKING ENGLISH I

ENL 061 Fall Winter Spring 6 Credits

44 hours of lecture 44 hours of lab

Pronunciation practice, listening comprehension, reading and oral discussion of fairly simple material in English. Activities include reading simple material and engaging in simple conversations in English. Prerequisite: Qualifying score on ENL placement test or consent of ENL Department or International Advising.

READING, LISTENING AND SPEAKING ENGLISH 2

ENL 062 Fall Winter Spring 6 Credits

44 hours of lecture 44 hours of lab

Pronunciation practice, listening comprehension, reading and oral discussion of more complex material in English. Practice asking questions, comprehending and offering information, and reading more complex academic material. Prerequisite: A grade of "C" or better in ENL 061 or qualifying score on ENL placement test or consent of ENL Department or International Advising.

READING, ORAL AND STUDY SKILLS

ENL 063 Fall Winter Spring 6 Credits

66 hours of lecture

Developing reading, vocabulary, oral, and study skills needed to perform simple academic tasks in English. Prerequisite: A grade of "C" or better in ENL 062 or qualifying score on ENL placement test or consent of ENL Department or International Advising.

READING, ORAL AND RESEARCH SKILLS

ENL 064 Fall Winter Spring 6 Credits

66 hours of lecture

Developing reading, vocabulary, oral, and basic research skills needed to complete more complex academic tasks in English. Prerequisite: A grade of "C" or better in ENL 063 or qualifying score on ENL placement test or consent of ENL Department or International Advising.

GRAMMAR AND COMPOSITION I

FNI 071 6 Credits Fall Winter Spring 44 hours of lecture 44 hours of lab

Basic vocabulary, simple sentence structures, and grammar appropriate to develop them, with emphasis on writing solid, clear simple sentences. Prerequisite: Qualifying score on ENL placement test or consent of ENL Department or International Advising.

GRAMMAR AND COMPOSITION 2

ENL 072 Fall Winter Spring 6 Credits

44 hours of lecture 44 hours of lab

Vocabulary, simple and more complex sentence structures, and grammar appropriate to develop them, with emphasis on writing clear, solid complex sentences. Prerequisite: A grade of "C" or better in ENL 071 or qualifying score on ENL placement test or consent of ENL Department or International Advising.

COMPOSITION 3

ENL 073 Fall Winter Spring 3 Credits

33 hours of lecture

Intermediate course focusing on the written structure of the English language at the sentence and paragraph levels. Prerequisite: A grade of "C" or better in ENL 072 or qualifying score on ENL placement test or consent of ENL Department or International Advising.

COMPOSITION 4

ENL 074 Fall Winter Spring 3 Credits

33 hours of lecture

Intermediate course focusing on the written structure of the English language at the five-paragraph essay level. Prerequisite: A grade of "C" or better in ENL 073 or qualifying score on ENL placement test or consent of ENL Department or International Advising.

COMPOSITION 5

ENL 075 Fall Winter Spring 5 Credits

55 hours of lecture

Adapted to the student's needs in such areas as: essay development, usage of appropriate vocabulary and idioms, and development of the research paper. Depending on progress shown, student may mainstream to an English composition class at the end of the quarter after instructor's approval. Prerequisite: A grade of "C" or better in ENL 074 or qualifying score on ENL placement test or consent of ENL Department or International Advising.

INTERMEDIATE WRITING AND APPLIED GRAMMAR

ENL 081 4 Credits

44 hours of lecture

Skill building through exercises in grammar, writing responses to assigned readings, and planning, organizing, drafting, and revising sentences and paragraphs. Particular emphasis on correction and practice of sentence-level grammar. Intended for non-native English writers. Concurrent enrollment in Reading 081 and ENL 082 are strongly recommended for any student; concurrent enrollment required for international program students to maintain credit level unless alternatives are approved by International Programs office. Prerequisite: TOEFL iBT 32-39, TOEFL Paper 400-429, IELTS Level 4, Compass ESL 65-79, Compass Writing 13-33/Reading 31-52, or SLEP 42; or permission of department.

INTERMEDIATE ORAL COMMUNICATION

ENL 082 4 Credits

44 hours of lecture

Focus on appropriate oral communication skills both inside and outside the classroom. Pronunciation and grammar accuracy as well as fluency will be developed. Intended for non-native English speakers. Concurrent enrollment required in READ 081 and ENL 081 for international program students or approval by International Programs office. Prerequisite: TOEFL iBT 32-39, TOEFL Paper 400-429, IELTS Level 4, Compass ESL 65-79, Compass Writing 13-33/Reading 31-52 or SLEP 42; or permission of department.

ADVANCED WRITING AND APPLIED GRAMMAR

ENL 091 4 Credits

44 hours of lecture

Skills developed through exercises in grammar, writing responses to assigned readings, and planning, organizing, drafting, and revising paragraphs and basic essays. Particular emphasis on correction and practice of sentence-level grammar. Intended for non-native English writers. Concurrent enrollment in READ 083 and ENL 092 required for international students or approval by International Programs office. Prerequisite: A grade of "C" or better in

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ENL 081 or DVED 094; or TOEFL iBT 40-48, or TOEFL Paper 430-459, or IELTS Level 4.5, or STEP-Eiken Gr. 2, or Compass ESL 80-91, or Compass Writing 34-48; or permission of department.

ADVANCED ORAL COMMUNICATION

ENL 092 3 Credits

33 hours of lecture

Focus on appropriate oral communication skills for college-level classes. Pronuciation and grammar accuracy as well as fluency will be developed. Intended for non-native English speakers. Concurrent enrollment required for international program students or approval by International Programs office. Prerequisite: A grade of "C" or better in ENL 081 or DVED 094; or TOEFL iBT 40-48, or TOEFL Paper 430-459, or IELTS Level 4.5, STEP-Eiken Gr. 2, Compass ESL 80-91, or Compass 34-48; or permission of department.

UPPER ADVANCED GRAMMAR

ENL 100 3 Credits

33 hours of lecture

Grammar review and application to writing expository essays and informative summaries. Intended for non-native English writers. Topics include writing and editing complex sentences using appropriate language and academic style. Students must also enroll in ENGL 098; concurrent enrollment in ENGL 098 and ENL 100 required for international program students or approval by International Programs office. Prerequisite: A grade of "C" or better in ENL 091 or ENGL 097; one of the following entry scores: TOEFL iBT 49-60, TOEFL Paper 460-499, IELTS Level 5, Compass ESL 92-100, or Compass Writing 49-77; or permission of department.

COLLEGE GRAMMAR SUPPORT

ENL 101 3 Credits

33 hours of lecture

Grammar review and application to writing persuasive essays, informative summaries, and critiques of college-level academic articles. Intended for non-native English writers. Topics include writing and editing complex sentences using appropriate language and academic style. Students must be enrolled in ENGL& 101; concurrent enrollment in ENGL& 101 and ENL 101 required for international program students in Level D or approval by International Programs office. Prerequisite: A grade of "C" or better in ENGL 098; or TOEFL iBT 61-67, or TOEFL Paper 500-519, or IELTS Level 5.5, or SLEP 53+; or Compass Writing 78+ and Compass Reading below 74.

English as a Second Language

ESL 002 EDUCATIONAL INTERVIEWING LEVELS 1-3

ESL 002 Summer Fall Winter Spring 1 Credit

11 hours of lecture

For new ESL students only; assessing new students in basic skills and learning styles; identifying barriers to their student success; helping students understand Clark College and Basic Education. Designed for lower level limited English proficient students.

ESL EDUCATIONAL INTERVIEWING LEVELS 4-6

ESL 003 Summer Fall Winter Spring 1 – 2 Credits

22 hours of lecture

For new ESL students only; assessing new students in basic skills and learning styles; identifying barriers to their student success; helping students understand Clark College and Basic Education.

ESL I-BEST EDUCATIONAL INTERVIEWING

ESL 004 Summer Fall Winter Spring 1 – 1 Credit

11 hours of lecture

For new ESL I-BEST students only; assessing new students in basic skills and learning styles; identifying barriers to their student success in transitioning to IBEST programs; helping students understand Clark College and the I-BEST program.

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ESL SPECIAL TOPICS

ESL 005 Summer Fall Winter Spring 1 – 10 Credits

88 hours of lecture 44 hours of lab

Variable topics in ESL and content to reflect the selected topics. Because the course varies in content, it is repeatable for credit for different topics. Individual topics are listed in the quarterly class schedule.

ESL PROJECT BASED LEARNING

ESL 006 Summer Fall Winter Spring 6 Credits

66 hours of lecture

Developing English Language Basic Skills in listening, speaking, reading, and writing, based on the Washington State Learning Standards, in a multi-level, multi-subject classroom. Exploring real-world problems and challenges. Focus on all four skills: reading, writing, listening and speaking; learning and practicing English through direct English instruction and through working on projects that are based on students' needs as assessed by instructor and students together; helping students to communicate effectively in family, community, and workplace situations.

ESL LISTENING AND SPEAKING, LEVEL I

ESL 011 Summer Fall Winter Spring 6 Credits

66 hours of lecture

ESL level 1 students will learn to comprehend the gist of short, face-to-face oral communications spoken at slower rates on familiar topics concerning family, community and work with a low level of ease through frequent use of repetition or rephrasing. Students completing this course will be able to speak well-rehearsed words and phrases in familiar, highly structured settings, with limited comprehensibility. Prerequisite: CASAS placement test score of 180 or below.

ESL READING AND WRITING, LEVEL I

ESL 012 Summer Fall Winter Spring 6 Credits

66 hours of lecture

ESL level 1 students will learn to slowly and with some effort comprehend words in short, simple texts to accomplish simple, well-defined, structured reading activities. Students completing this course will be able to write individual words, simple phrases and very simple sentences slowly, but with some effort and errors, to accomplish highly structured writing activities in familiar, comfortable settings. Prerequisite: CASAS placement test score of 180 or below.

ESL KEYBOARDING/WORD PROCESSING

ESL 016 Summer Fall Winter Spring 1 – 2 Credits

44 hours of lab

Introduction to computer skills and applications in the context of reading comprehension, writing strategies and writing techniques within the Washington State Adult Learning Standards.

ESL BEGINNING PRONUNCIATION LEVELS 1-2

ESL 017 Summer Fall Winter Spring 2 Credits

22 hours of lecture

Strengthen pronunciation skills for ESL students in accordance with Washington ESL Adult Learning Standard. To speak so others can understand. ESL students should: Determine the purpose for communication. Organize and relay information to effectively serve the purpose, context, and listener. Pay attention to conventions of oral English communication, including grammar, word choice, register, pace, and gesture in order to minimize barriers to listener's comprehension. Use multiple strategies to monitor the effectiveness of the communication. Instruction is targeted according to ESL Levels 1-2.

ESL PRONUNCIATION LEVELS 3-4

ESL 018 Summer Fall Winter Spring 2 Credits

22 hours of lecture

Strengthen pronunciation skills for ESL students in accordance with Washington ESL Adult Learning Standard. To speak so others can understand. ESL students should: Determine the purpose for communication. Organize and relay information to effectively serve the purpose, context, and listener. Pay attention to conventions of oral English communication, including grammar, word choice, register, pace, and gesture in order to minimize barriers

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to listener's comprehension. Use multiple strategies to monitor the effectiveness of the communication. Instruction is targeted according to ESL Levels 3-4. Concurrent enrollment in ESL Levels 3-4.

ESL PRONUNCIATION LEVELS 5-6

ESL 019 Summer Fall Winter Spring 2 Credits

22 hours of lecture

Strengthen pronunciation skills for ESL students in accordance with Washington ESL Adult Learning Standard: To speak so others can understand. ESL students should: Determine the purpose for communicating. Organize and relay information to effectively serve the purpose, context, and listener. Pay attention to conventions of oral English communication, including grammar, word choice, register, pace, and gesture in order to minimize barriers to listener's comprehension. Use multiple strategies to monitor the effectiveness of the communication. Instruction is targeted according to ESL Levels 5-6. Concurrent enrollment in ESL Levels 5-6.

READING, SPEAKING AND ADULT NUMERACY

ESL 020 Fall Winter Spring 2 Credits

22 hours of lecture

Development of appropriate reading and speaking strategies for participating in discussions regarding adult numeracy presented within the Washington State Adult Learning Standards: topics include arithmetic, word problems, simple geometry, and algebra. Concurrent enrollment in ESL levels 2 or above. Prerequisite: ESL 022.

ESL LISTENING AND SPEAKING, LEVEL II

ESL 021 Summer Fall Winter Spring 6 Credits

66 hours of lecture

ESL level 2 students will learn to comprehend the gist of simple, face-to-face oral communications completing highly structured tasks with pre-taught vocabulary, slow speech, and visual aids on familiar topics concerning family, community and work with some level of ease through frequent use of repetition or rephrasing. Students completing this course will be able to speak well-rehearsed phrases and simple sentences in familiar, highly structured settings, with occasional hesitation and inaccuracy. Prerequisite: ESL 011 and 012 or CASAS placement score of 181 to 190.

ESL READING AND WRITING, LEVEL II

ESL 022 Summer Fall Winter Spring 6 Credits

66 hours of lecture

ESL level 2 students will learn to slowly comprehend words in small blocks of simple texts with some repetition and errors to independently accomplish simple, well-defined, structured reading activities. Students completing this course will be able to write simple sentences to independently accomplish highly structured writing activities in a few familiar, comfortable settings. Prerequisite: ESL 011 and 012 or CASAS placement score of 181 to 190.

READING, SPEAKING AND THE AMERICAN CITIZENSHIP

ESL 030 Fall Winter Spring 2 Credits

11 hours of lecture 22 hours of lab

Development of appropriate reading and speaking strategies to actively participate in various aspects of Civics and the US citizenship process; topics include presenting information and effectively responding to questions using knowledge and application of the Washington State Adult Learning Standards.

ESL LISTENING AND SPEAKING, LEVEL III

ESL 031 Summer Fall Winter Spring 6 Credits

66 hours of lecture

ESL level 3 students will learn to listen for structured, well-defined purposes to maintain personal conversations, acquire information or complete basic transactions in-person or in short telephone conversations with simplified language through frequent use of clarification strategies, using short, sometimes inaccurate utterances and a high level of visual or verbal support. Students completing this course will be able to speak with relative ease with some inaccuracies or non-standard speech in familiar one-on-one settings. Prerequisite: ESL 021 and 022 or CASAS placement test score of 191 to 202.

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ESL READING AND WRITING, LEVEL III

ESL 032 Summer Fall Winter Spring

66 hours of lecture

ESL level 3 students will learn to comprehend small blocks of simple texts slowly but easily with few errors to independently accomplish simple, well-defined, structured reading activities. Students completing this course will be able to write several simple sentences on familiar topics, with some effort but with few errors, to independently accomplish simple, well-defined, structured writing activities in a few familiar, comfortable settings. Prerequisite: ESL 021 and 022 or CASAS placement test score of 191 to 202.

ESL LISTENING AND SPEAKING, LEVEL IV

ESL 041 Summer Fall Winter Spring 6 Credits

66 hours of lecture

ESL level 4 students will learn to comprehend and respond to most basic background information, everyday transaction and simple routine tasks, but have difficulty understanding full details on less familiar topics. Students completing this course will be able to speak fluently and relatively accurately in familiar contexts with a moderately high level of support. Their speaking will usually be understood by a skilled, supportive listener. Prerequisite: ESL 031 and 032 or CASAS placement test score of 203 to 213.

ESL READING AND WRITING, LEVEL IV

ESL 042 Summer Fall Winter Spring 6 Credits

66 hours of lecture

ESL level 4 students will learn to quickly and accurately read and comprehend words and word groups in multiple pages of simple text in familiar contexts to independently accomplish simple well-defined, structured reading and writing activities in a few familiar settings. Students completing this course will be able to write short, structured paragraphs on familiar topics with some effort but with few errors. Prerequisite: ESL 031 and 032 or CASAS placement test score of 203 to 213.

ESL LISTENING AND SPEAKING, LEVEL V

ESL 051 Summer Fall Winter Spring 6 Credits

66 hours of lecture

ESL level 5 students will learn to comprehend relatively unstructured, moderate-length conversations and presentations in somewhat complex, unfamiliar situations with non-adjusted language understanding some main ideas, and details. Students completing this course will be able to speak fluently and accurately in some unfamiliar contexts with some support. Their speaking will generally be understood by a skilled, supportive listener. Prerequisite: ESL 041 and 042 or CASAS placement test score of 214 to 220.

ESL READING AND WRITING, LEVEL V

ESL 052 Summer Fall Winter Spring 6 Credits 66 hours of lecture

ESL level 5 students will learn to read and comprehend a variety of texts at an appropriate pace and with good comprehension to independently accomplish structured reading activities in a variety of familiar settings. Students completing this course will be able to write simple narrative, informative, or expressive texts of a few short paragraphs and steps with some effort, but with few errors to independently accomplish well-defined, structured writing activities for varied audiences in familiar settings. Prerequisite: ESL 041 and 042 or CASAS placement test score of 214 to 220.

ESL LEVEL 6A LISTENING AND SPEAKING

ESL 061 Summer Fall Winter Spring 6 Credits

66 hours of lecture

ESL level 6A students will learn to function relatively independently in many social and work situations comprehending relatively unstructured conversations requiring integration of some data sources with limited need for guidance. Students completing this course will be able to speak fluently and accurately in most contexts with minimal support. Their speaking will sometimes be understood by an unskilled, unsupportive listener. Prerequisite: ESL 051 and 052 or CASAS placement test score of 221 to 227.

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6 Credits

ESL LEVEL 6A READING AND WRITING

ESL 062 Summer Fall Winter Spring

6 Credits

66 hours of lecture

ESL level 6A students will learn to read and comprehend multipart texts at an appropriate pace with enough comprehension to independently accomplish structured, fairly complex reading activities in a variety of familiar and a few novel settings. Students completing this course will be able to write a variety of texts including some complex sentence structures and multiple paragraphs with few errors for a variety of purposes independently accomplishing structured writing in familiar and a few novel settings. Prerequisite: ESL 051 and 052 or CASAS score of 221 to 227.

ESL LEVEL 6B LISTENING AND SPEAKING

ESL 063 Summer Fall Winter Spring

6 Credits

66 hours of lecture

ESL level 6B students will learn to function independently in most social and work situations and comprehend relatively complex and unstructured oral input at normal speed integrating and summarizing several data sources with limited need for guidance and few errors. Students completing this course will be able to speak fluently and accurately with most familiar and unfamiliar audiences with minimal support. Student speech can generally be understood by an unsupportive, unskilled listener despite student lack of full comfort and ease. Prerequisite: ESL 061 and 062 or CASAS placement test score of 228 to 235.

ESL LEVEL 6B READING AND WRITING

ESL 064 Summer Fall Winter Spring

6 Credits

66 hours of lecture

ESL level 6B students will learn to read and comprehend dense or multipart texts at an appropriate pace and with good comprehension to independently accomplish structured, complex reading activities in a variety of familiar and some novel settings. Students completing this course will be able to write a variety of texts including more complex sentence structures and multiple paragraphs easily with few errors for a wide variety of purposes independently accomplishing structured, fairly complex writing in a variety of familiar and some novel settings. Prerequisite: ESL 061 and 062 or CASAS placement test score 228 to 235.

LANGUAGE STANDARDS FOR COLLEGE TRANSITIONS

ESL 065 Summer Fall Winter Spring

6 Credits

66 hours of lecture

Development of academic skills and appropriate language strategies to successfully transition into degree and certification programs, using knowledge and application of the Washington State Adult Learning Standards; focus on academics and cultural values/issues (ie., active listening and participation, assertiveness, etc.) integral to a successful academic experience.

I-BEST SUPPORT

ESL 071 1 – 6 Credits

66 hours of lecture

Provides Basic Skills students extra instruction and support for success in their I-BEST designated classes. Reviews important concepts and vocabulary introduced during I-BEST classes. Provide opportunities to develop culturally unfamiliar customer service and interaction skills needed to be successful in I-BEST occupations. Prerequisite: Admission into an I-BEST program.

MEDICAL LANGUAGE FOR ESL

ESL 072 3 Credits

33 hours of lecture

Introduction to basic medical terminology for non-native speakers of English to support transition into HEOC 125, a basic required course for Clark College Health Occupation Programs. Concurrent enrollment in ESL 073 and 074. Prerequisite: CASAS score of 214 or more or instructor permission.

INTRO TO HEALTH OCCUPATIONS FOR ESL

ESL 073 2 Credits

22 hours of lecture

Introduction to health careers for non-native speakers of English to support a transition into Clark College Health

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Occupation Programs. Concurrent enrollment in ESL 072 and 074. Prerequisite: CASAS score of 214 or more or instructor permission.

MEDICAL LANGUAGE SUPPORT FOR ESL

ESL 074 7 Credits

77 hours of lecture

Introduction to health occupations and some basic medical terminology for non-native speakers of English to support transition into Clark College Health Occupation Programs. Concurrent enrollment in ESL 072 and 073. Prerequisite: CASAS score of 214 or more or instructor permission.

ESL SELECTED TOPICS

ESL 080 1 - 10 Credits

110 hours of lecture

Course will focus on selected ESL topics. Course theme and content will change to reflect the new topic. Because of the variations, this course is repeatable for credit for different topics.

INTERMEDIATE WRITING AND APPLIED GRAMMAR

FSI 081 4 Credits

44 hours of lecture

Skill building through exercises in grammar, writing responses to assigned readings, and planning, organizing, drafting, and revising sentences and paragraphs. Particular emphasis on correction and practice of sentence-level grammar. Intended for non-native English writers. Concurrent enrollment in ESL 082 is strongly recommended for any student. Prerequisite: Successful completion of ESL Level 4; CASAS scores of 214-220; or permission of ESL Department.

INTERMEDIATE ORAL COMMUNICATION

ESL 082 4 Credits

44 hours of lecture

Focus on appropriate oral communication skills both inside and outside the classroom. Pronunciation and grammar accuracy as well as fluency will be developed. Intended for non-native English speakers. Concurrent enrollment in ESL 081 is strongly recommended. Prerequisite: Successful completion of ESL Level 4; CASAS scores of 214-220; or permission of ESL Department.

ADVANCED WRITING AND APPLIED GRAMMAR

ESL 091 4 Credits

44 hours of lecture

Skills developed through exercises in grammar, writing responses to assigned readings, and planning, organizing, drafting, and revising paragraphs and basic essays. Particular emphasis on correction and practice of sentence-level grammar. Intended for non-native English writers. Concurrent enrollment in ESL 092 strongly recommended. Prerequisite: A grade of "C" or better in ESL 081, successful completion of ESL Level 5, CASAS scores of 221-235, or permission of ESL Department.

ADVANCED ORAL COMMUNICATION

ESL 092 3 Credits

33 hours of lecture

Focus on appropriate oral communication skills for college-level classes. Pronunciation and grammar accuracy as well as fluency will be developed. Intended for non-native English speakers. Concurrent enrollment in ESL 091 strongly recommended.

Environmental Science

INTEGRATED ENVIRONMENTAL SCIENCE

ENVS 109 Winter Spring 5 Credits 33 hours of lecture 44 hours of lab

Introduction to scientific inquiry using the foundations of physical, earth and life sciences. Focus on developing the

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skills to answer basic questions about scientific phenomena through scientific investigations and the ability to assist and guide others through this process. Designed for non-science majors and addressing the curriculum needs of early childhood educators. Prerequisite: A grade of "C" or better in MATH 030.

MODELING ENERGY DYNAMICS IN EVERYDAY LIFE

ENVS 135 Spring 3 Credits

33 hours of lecture

Introduction to models of energy dynamics. Students will develop and interpret models of annual energy use and cost using real data related to home lighting, home heating and food consumption. Models will be used to analyze cost/benefit of alternatives. Prerequisite: A grade of "C" or better in MATH 095. [NS, SE]

INTRO TO ENVIRONMENTAL SYSTEMS

ENVS 211 Fall 5 Credits

33 hours of lecture 44 hours of lab

First of a three-course sequence in Environmental Science. Introduction to environmental topics including environmental modeling and problem solving, sustainability, the scientific method, biodiversity, ecosystem organization, energy flow, material cycling, population growth, natural selection, island biogeography, ecological succession, and resource management.

FIELD STUDIES IN ENVIRONMENTAL SCIENCE

ENVS 218 Spring 1 – 7 Credits

22 hours of lecture 110 hours of lab

Learning field techniques for research in environmental science, interacting with scientists and others working in the field, and participating in the collection of research data. Topics include the interactions between scientists and other land managers in our natural environments. Projects vary depending on student interest and current work in the field area visited. Prerequisite: 5 credits in any Environmental Science, Geology or BIOL 101, 140, 141, 142, 143, 145, 150, 208, 221, 222, 223, 224 or BIOL& 100 with a grade of "C" or better, or consent of Instructional Unit.

ENVIRONMENTAL SCIENCE: PROBLEM SOLVING

ENVS 221 Winter 5 Credits

33 hours of lecture 44 hours of lab

Second of a three-course sequence in Environmental Science. Introduction to applied techniques in environmental science including: environmental sampling design and measurement, environmental assessment and mitigation, and environmental modeling and problem solving. Prerequisite: A grade of "C" or better in ENSC 201.

ENVIRONMENTAL POLITICS

ENVS 231 Spring 5 Credits

55 hours of lecture

Examines the relationship between industrial civilization and the natural environment by exploring underlying ecological philosophies and the economic and political processes by which environmental decisions are made. Emphasis on critical thinking and evaluating alternative points of view.

SPECIAL PROJECTS

ENVS 290 Summer Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize, and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

Family Life - Parent & Child

PARENT/BABY WORKSHOP

FLPC 004 Summer 1 Credit

11 hours of lecture

Learning activities, music and movement, parenting topics and guided interaction between parent and baby.

PARENT/TODDLER WORKSHOP

FLPC 014 1 Credit

11 hours of lecture

Learning activities to enhance development. Sensory/motor experiences, parenting topics and guided interaction between parent and child.

PRESCHOOL ENRICHMENT

FLPC 031 Fall 1 Credit

6 hours of lecture 11 hours of lab

Activities to encourage creativity and creative thinking in preschool children. Parent attends orientation class and children's lab class for 4 sessions. Child attends weekly. Contact department 992-2393 before enrolling.

PRESCHOOL ENRICHMENT

FLPC 032 Winter 1 Credit

6 hours of lecture 11 hours of lab

Activities to encourage creativity and creative thinking in preschool children. Parent attends orientation class and children's lab class for 4 sessions. Child attends weekly. Contact department 992-2393 before enrolling.

PRESCHOOL ENRICHMENT

FLPC 033 Spring 1 Credit

6 hours of lecture 11 hours of lab

Activities to encourage creativity and creative thinking in preschool children. Parent attends orientation class and children's lab class for 4 sessions. Child attends weekly. Contact department 992-2393 before enrolling.

PRESCHOOL WORKSHOP

FLPC 034 1 Credit

11 hours of lecture

For children aged 2 1/2 to 5. Learning and play activities for children. Parents gain skills by aiding in the preschool classroom. Child development, cognitive and social development.

PRESCHOOL ENRICHMENT WORKSHOPS

FLPC 044 1 Credit

11 hours of lecture

Activities to encourage creativity and creative thinking in preschool children.

INDEPENDENT LIVING

FLPC 080 Spring 3 Credits

33 hours of lecture

Provides foster parents with the knowledge and skills necessary to assess the readiness of, and prepare adolescents for, independent living.

PARENT AND INFANT

FLPC 101 Fall 1 – 2 Credits

22 hours of lecture

Parent participation class for parents and their babies, newborn to walking. Includes discussions on infant development, child care practices, and parenting techniques. Guided interaction between parent and baby. Activities to stimulate baby's development. Contact department before enrolling, 992-2393.

PARENT AND INFANT

FLPC 102 Winter 1 – 2 Credits

22 hours of lecture

Parent participation class for parents and their babies, newborn to walking. Includes discussions on infant development, child care practices, and parenting techniques. Guided interaction between parent and baby. Activities to stimulate baby's development. Contact department before enrolling, 992-2393.

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PARENT/INFANT

FLPC 103 Spring 1 - 2 Credits

22 hours of lecture

Parent participation class for parents and their babies, newborn to walking. Includes discussions on infant development, child care practices, and parenting techniques. Guided interaction between parent and baby. Activities to stimulate baby's development. Contact department before enrolling, 992-2393.

PARENT/TODDLER

FLPC 111 Fall 1 – 2 Credits

22 hours of lecture

Toddlers ages 12-33 months attend classes one morning per week from 9:30-11:30 with their parent/caregivers. Classroom teachers design age appropriate learning experiences for the children and opportunities for parents to support their child's growing need for independence and exploration. Each interactive class includes a discussion time for parents with a family life instructor on topics such as child growth and development, guidance techniques, toilet learning, safety, health and nutrition and development activities. Two hours per week. Call 992-2393 to enroll.

PARENT/TODDLER

FLPC 112 Winter 1 – 2 Credits

22 hours of lecture

Toddlers ages 12-33 months attend classes one morning per week from 9:30-11:30 with their parent/caregivers. Class-room teachers design age appropriate learning experiences for the children and opportunities for parents to support their child's growing need for independence and exploration. Each interactive class includes a discussion time for parents with a family life instructor on topics such as child growth and development, guidance techniques, toilet learning, safety, health and nutrition and development activities. Two hours per week. Call 992-2393 to enroll.

PARENT/TODDLER

FLPC 113 Spring 1 – 2 Credits

22 hours of lecture

Toddlers ages 12-33 months attend classes one morning per week from 9:30-11:30 with their parent/caregivers. Class-room teachers design age appropriate learning experiences for the children and opportunities for parents to support their child's growing need for independence and exploration. Each interactive class includes a discussion time for parents with a family life instructor on topics such as child growth and development, guidance techniques, toilet learning, safety, health and nutrition and development activities. Two hours per week. Call 992-2393 to enroll.

PARENT/TODDLER

FLPC 114 Summer 1 – 2 Credits

22 hours of lecture

Toddlers ages 12-33 months attend classes one morning per week from 9:30-11:30 with their parent/caregivers. Class-room teachers design age appropriate learning experiences for the children and opportunities for parents to support their child's growing need for independence and exploration. Each interactive class includes a discussion time for parents with a family life instructor on topics such as child growth and development, guidance techniques, toilet learning, safety, health and nutrition and development activities. Two hours per week. Call 992-2393 to enroll.

PARENT EDUCATION FOR CHILD CARE PARENTS

FLPC 121 Fall 1 Credit

6 hours of lecture 11 hours of lab

Parent involvement and education for parents with children enrolled in the Child and Family Studies child care program. Children attend 2-5 times per week. Student/parents have variable options for participation including orientation, classroom involvement, parenting workshops, classroom meetings, book clubs, brown bag lunch lectures and service learning projects related to the subjects of child development, parenting, classroom curriculum and community building. Call 992-2393 to enroll.

PARENT EDUCATION FOR CHILD CARE PARENTS

FLPC 122 Winter 1 Credit

6 hours of lecture 11 hours of lab

Parent involvement and education for parents attending the Child and Family Studies child care center. Children attend 2-5 times per week. Student/parents have variable options for participation including orientation, classroom involvement, parenting workshops, classroom meetings, book clubs and service learning projects related to the subjects of child development, parenting and classroom curriculum and community building. Contact 992-2393 to enroll.

PARENT EDUCATION FOR CHILD CARE PARENTS

FLPC 123 Spring 1 Credit

6 hours of lecture 11 hours of lab

Parent involvement and education for parents attending the Child and Family Studies child care center. Children attend 2-5 times per week. Student/parents have variable options for participation including orientation, classroom involvement, parenting workshops, classroom meetings, book clubs and service learning projects related to the subjects of child development, parenting and classroom curriculum and community building. Call 992-2393 to enroll.

PARENT EDUCATION FOR CHILD CARE PARENTS

FLPC 124 Summer 1 Credit

6 hours of lecture 11 hours of lab

Parent involvement and education for parents with children enrolled in the Child and Family Studies child care program. Children attend 2-5 times per week. Student/parents have variable options for participation including orientation, classroom involvement, parenting workshops, classroom meetings, book clubs, brown bag lunch lectures and service learning projects related to the subjects of child development, parenting, classroom curriculum and community building. Call 992-2393 to enroll.

PARENT PARTICIPATION PRESCHOOL

FLPC 131 Fall 1 – 3 Credits

11 hours of lecture 44 hours of lab

Parent participation pre-school at Clark College offers children and their family members an opportunity to learn and grow together. Children from 33 months to 5 years of age are enrolled and attend 2-3 times per week. Parents participate in the classroom and learn about child development, facilitating children's learning and creating a parent support group. Parenting classes are offered that provide opportunity to learn about effective guidance, parenting strategies, child development and community building. Call 992-2393 to enroll. Fees may be paid in three payments. 1st payment due at registration.

PARENT PARTICIPATION PRESCHOOL

FLPC 132 Winter 1 – 3 Credits

11 hours of lecture 44 hours of lab

Parent participation pre-school at Clark College offers children and their family members an opportunity to learn and grow together. Children from 33 months to 5 years of age are enrolled and attend 2-3 times per week. Parents participate in the classroom and learn about child development, facilitating children's learning and creating a parent support group. Parenting classes are offered that provide opportunity to learn about effective guidance, parenting strategies, child development and community building. Call 992-2393 to enroll. Fees may be paid in three payments. 1st payment due at registration.

PARENT PARTICIPATION PRESCHOOL

FLPC 133 Spring 1 – 3 Credits

11 hours of lecture 44 hours of lab

Parent participation pre-school at Clark College offers children and their family members an opportunity to learn and grow together. Children from 33 months to 5 years of age are enrolled and attend 2-3 times per week. Parents participate in the classroom and learn about child development, facilitating children's learning and creating a parent support group. Parenting classes are offered that provide opportunity to learn about effective guidance, parenting strategies, child development and community building. Call 992-2393 to enroll. Fees may be paid in three payments. 1st payment due at registration.

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PARENT PARTICIPATION PRESCHOOL

FLPC 134 Summer 1 – 3 Credits

11 hours of lecture 44 hours of lab

Parent participation pre-school at Clark College offers children and their family members an opportunity to learn and grow together. Children from 33 months to 5 years of age are enrolled and attend 2-3 times per week. Parents participate in the classroom and learn about child development, facilitating children's learning and creating a parent support group. Parenting classes are offered that provide opportunity to learn about effective guidance, parenting strategies, child development and community building. Call 992-2393 to enroll. Fees may be paid in three payments. 1st payment due at registration.

PARENT COOPERATIVE PRESCHOOL

FLPC 135 Fall 1 – 3 Credits

11 hours of lecture 44 hours of lab

Preschool experiences for children. Practice in parenting skills. Parents serve as aides to the teacher in the classroom 4-5 times a quarter, work on committees, and attend monthly meetings. Children 2 1/2 – 6 participate in 2 1/2 hour classes. Contact department before enrolling, 992-2393. Credit varies with amount of parent participation.

PARENT COOPERATIVE PRESCHOOL

FLPC 136 Winter 1 – 3 Credits

11 hours of lecture 44 hours of lab

Preschool experiences for children. Practice in parenting skills. Parents serve as aides to the teacher in the classroom 4-5 times a quarter, work on committees, and attend monthly meetings. Children $2 \frac{1}{2} - 6$ participate in $2 \frac{1}{2}$ hour classes. Contact department before enrolling, 992-2393. Credit varies with amount of parent participation.

PARENT COOPERATIVE PRESCHOOL

FLPC 137 Spring 1 – 3 Credits

11 hours of lecture 44 hours of lab

Preschool experiences for children. Practice in parenting skills. Parents serve as aides to the teacher in the classroom 4-5 times a quarter, work on committees, and attend monthly meetings. Children 2 1/2 – 6 participate in 2 1/2 hour classes. Contact department before enrolling, 992-2393. Credit varies with amount of parent participation.

EARLY INTERVENTION PARENT/CHILD PARTICIPATION

FLPC 141 Fall 1 Credit

6 hours of lecture 11 hours of lab

A participation class for parents/caregivers of children with developmental delays, ages birth to 36 months. This is a class designed to support parents/caregivers to meet the needs of their child through play and caretaking activities in the child's natural environment. Parents participate in the evaluation of their child's abilities and challenges and have learning opportunities through group meetings with other families receiving early intervention services as well as the activities in the overall Child and Family Studies program. This course is designed to provide learning opportunities in areas including child and family development, guidance techniques, developing appropriate expectations, health as well as specific information related to their child's needs.

EARLY INTERVENTION PARENT/CHILD PARTICIPATION

FLPC 142 Winter 1 Credit

6 hours of lecture 11 hours of lab

A participation class for parents/caregivers of children with developmental delays, ages birth to 36 months. This is a class designed to support parents/caregivers to meet the needs of their child through play and caretaking activities in the child's natural environment. Parents participate in the evaluation of their child's abilities and challenges and have learning opportunities through group meetings with other families receiving early intervention services as well as the activities in the overall Child and Family Studies program. This course is designed to provide learning opportunities in areas including child and family development, guidance techniques, developing appropriate expectations, health as well as specific information related to their child's needs.

EARLY INTERVENTION PARENT/CHILD PARTICIPATION

FLPC 143 Spring 1 Credit

6 hours of lecture 11 hours of lab

A participation class for parents/caregivers of children with developmental delays, ages birth to 36 months. This is a class designed to support parents/caregivers to meet the needs of their child through play and caretaking activities in the child's natural environment. Parents participate in the evaluation of their child's abilities and challenges and have learning opportunities through group meetings with other families receiving early intervention services as well as the activities in the overall Child and Family Studies program. This course is designed to provide learning opportunities in areas including child and family development, guidance techniques, developing appropriate expectations, health as well as specific information related to their child's needs.

EARLY INTERVENTION PARENT/CHILD PARTICIPATION

FLPC 144 Summer 1 Credit

6 hours of lecture 11 hours of lab

A participation class for parents/caregivers of children with developmental delays, ages birth to 36 months. This is a class designed to support parents/caregivers to meet the needs of their child through play and caretaking activities in the child's natural environment. Parents participate in the evaluation of their child's abilities and challenges and have learning opportunities through group meetings with other families receiving early intervention services as well as the activities in the overall Child and Family Studies program. This course is designed to provide learning opportunities in areas including child and family development, guidance techniques, developing appropriate expectations, health as well as specific information related to their child's needs.

RAISING A RESPONSIBLE CHILD

FLPC 150 2 Credits

22 hours of lecture

Basic Dreikurs study-discussion group for parents of both pre- and elementary schoolers, with emphasis on child discipline and improving parent-child relationships. Alternatives to reward and punishment. Handling struggles for attention and power.

FAMILY CARE PROGRAMS

FLPC 151 3 Credits

33 hours of lecture

Training for parents providing child care in their homes. Child development and discipline, health, safety, nutrition and curriculum activities.

FOSTER CARE PARENTING I

FLPC 153 Fall 5 Credits

44 hours of lecture 22 hours of lab

Training for parents providing foster care. Characteristics of foster children, personality development, child abuse and neglect. Foster parent survival, separation of child from natural parents, and interagency functions. Permission required to enroll.

SYSTEMATIC TRAINING FOR EFFECTIVE PARENTING

FLPC 156 2 Credits

22 hours of lecture

A practical approach to parent-child relations. Learn how to communicate effectively and avoid discipline problems.

PARENT EFFECTIVENESS TRAINING

FLPC 160 2 Credits

22 hours of lecture

Learn to relate on an equal basis with others, children and adults, with a "no lose" conflict method. Training in active listening and honest, open communication skills, with a full expression of feelings, needs, and values.

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SINGLE PARENT SURVIVAL

FLPC 161 Fall 1 Credit

11 hours of lecture

Parent participation workshops for single parents and their children. Family meal and discussion of nutrition and parenting skills. Support group for parents, problem solving, and participation in children's classroom. Contact department before enrolling, 992-2393.

SINGLE PARENT SURVIVAL

FLPC 162 Winter 1 Credit

11 hours of lecture

Parent participation workshops for single parents and their children. Family meal and discussion of nutrition and parenting skills. Support group for parents, problem solving, and participation in children's classroom. Contact department before enrolling, 992-2393.

SINGLE PARENT SURVIVAL

FLPC 163 Spring 1 Credit

11 hours of lecture

Parent participation workshops for single parents and their children. Family meal and discussion of nutrition and parenting skills. Support group for parents, problem solving, and participation in children's classroom. Contact 699-0179 before enrolling.

PARENTING WORKSHOPS

FLPC 164 1 Credit

11 hours of lecture

Seminars on a variety of parenting topics including guidance, creativity, development, relationships, enrichment activities for children and health and nutrition.

FATHER/CHILD WORKSHOP

FLPC 168 1 Credit

11 hours of lecture

Enhancing father-child relations through guided activities and lecture/discussion. Father and child attend together. Workshop on varying topics based on age of children participating. Contact 699-0179 before enrolling.

PARENT AND CHILD

FLPC 171 Fall 1 – 2 Credits

22 hours of lecture

Parent participation preschool for working parents and their 2 1/2 to 6-year-old children. Establish nurturing relationships with children and provide opportunities for the development of competence and individuality. Contact department before enrolling, 992-2393.

PARENT AND CHILD

FLPC 172 Winter 1 – 2 Credits

22 hours of lecture

Parent participation preschool for working parents and their 2 1/2 to 6-year-old children. Establish nurturing relationships with children and provide opportunities for the development of competence and individuality. Contact department before enrolling, 992-2393.

PARENT AND CHILD

FLPC 173 Spring 1 – 2 Credits

22 hours of lecture

Parent participation preschool for working parents and their 2 1/2 to 6-year-old children. Establish nurturing relationships with children and provide opportunities for the development of competence and individuality. Contact department before enrolling, 992-2393.

PARENT EDUCATION FOR PARENTS WITH SIBLINGS

FLPC 181 Fall Winter Spring 3 Credits

22 hours of lecture 22 hours of lab

Child growth and development. Multi-aged classroom. Parents and children attend class together. Planned learning experiences for babies, toddlers, and preschoolers. Seminars and parent participation related to siblings and family relationships.

FAMILY LIVING SKILLS

FLPC 184 Fall 1 – 2 Credits

11 hours of lecture 22 hours of lab

Explore alternatives to everyday challenges of parenting and home management. Contact department before enrolling, 992-2393.

FAMILY LIVING SKILLS

FLPC 185 Winter 1 – 2 Credits

11 hours of lecture 22 hours of lab

Explore alternatives to everyday challenges of parenting and home management. Contact department before enrolling, 992-2393.

FAMILY LIVING SKILLS

FLPC 186 Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

Explore alternatives to everyday challenges of parenting and home management. Contact department before enrolling, 992-2393.

PRINCIPLES OF CHILD GUIDANCE

FLPC 268 2 Credits

22 hours of lecture

Effecting family relationships through principles of child management. Theory and practical applications, lecturedemonstrations of family counseling techniques. Parent and child groups.

SELECTED TOPICS

FLPC 280 Fall Winter Spring 2 Credits

22 hours of lecture

Special topics in Women's Studies: Creative Parenting. An in-depth look at ways to nurture children while nurturing the parent. How to combine work, school and family making creative choices.

First Aid and CPR

FIRST AID AND HEALTH CARE PROVIDER CPR

FACPR 032 Summer Fall Winter Spring 1 Credit

5 hours of lecture

First aid and cardiopulmonary resuscitation, for health care providers as required by the Washington Occupation and Health Act. Designed specifically for health care providers.

Fitness Trainer

FITNESS TRAINER SEMINAR

FT 101 Fall 1 Credit

11 hours of lecture

Career exploration course focusing on gaining insight into the roles, professional duties, and responsibilities of fitness/health professionals across the fitness industry.

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FUNDAMENTALS OF FITNESS

FT 150 Summer 3 Credits

33 hours of lecture

Basic principles of exercise science, exercise prescription and risk management for the fitness professional.

FITNESS CENTER SKILLS

FT 151 Winter 2 Credits

44 hours of lab

Develop skills related to exercise techniques and instruction focusing on cardio machines, weight machines and basic free weights.

FLEXIBILITY, POSTURE AND CORE

FT 152 Spring 2 Credits

44 hours of lab

Develop skills related to exercise assessment, technique and instruction focusing on flexibility, posture and core.

EXERCISE TECHNIQUES

FT 153 Fall 2 Credits

44 hours of lab

Develop skills related to exercise techniques and instruction focusing on running/sprinting form, introduction to plyometrics, and the use of body weight, dumbbells, elastic tubing, and stability balls for resistance training.

POWER DEVELOPMENT

FT 154 Winter 2 Credits

44 hours of lab

Develop skills related to exercise technique and instruction focusing on power, speed, agility and quickness. Prerequisite: A grade of "C" or better in FT 151.

GROUP FITNESS INSTRUCTOR

FT 155 Summer 2 Credits

44 hours of lab

Develop skills related to exercise technique and instruction focusing on group exercise training to music. Concurrent enrollment in FT 150, or completion of FT 260 and FT 220 with a grade of "C" or better.

NUTRITION FOR FITNESS

FT 200 Winter 3 Credits

33 hours of lecture

Develop strategies for encouraging nutritious eating and weight management. Discuss eating disorders. Explore performance nutrition and supplementation. Acquire a variety of diet and analysis tools to use with clients within the scope of practice for the personal trainer. Prerequisite: A grade of "C" or better in HLTH 100 and MATH 090 or 091.

WELLNESS COACHING

FT 210 Fall 3 Credits

22 hours of lecture 22 hours of lab

Develop collaborative communication style and motivational skills to help clients adopt healthier lifestyles.

FACILITY MANAGEMENT

FT 220 Winter 3 Credits

33 hours of lecture

CPR/AED and First Aid specific to a health club setting. Liability, safety, facility layout, repair, and maintenance will also be explored. Upon successful completion of this course, students will receive their Lay Responder certification from the American Red Cross.

FITNESS TESTING

FT 230 Fall 3 Credits

11 hours of lecture 44 hours of lab

Methods of assessment of client health, fitness, nutrition, and exercise behavior. Developing skills for assessing blood pressure, body composition, cardio-respiratory fitness, flexibility, and muscular strength/endurance. Prerequisite: A grade of "C" or better in HPE 258 and MATH 090 or 091. [GE]

STRUCTURAL KINESIOLOGY

FT 250 Fall 3 Credits

22 hours of lecture 22 hours of lab

Overview of anatomical and mechanical bases of human movement. Prerequisite: A grade of "C" or better in FT 151. [GE]

EXERCISE PHYSIOLOGY

FT 251 Fall 4 Credits

44 hours of lecture

Study of physiological responses and adaptations of the body to exercise: topics include principles related to disease prevention, the cardio-respiratory system, neuromuscular system, environmental stress, supplementation, nutrition, metabolism, body composition, and weight management. Prerequisite: A grade of "C" or better in BIOL 164/165 or BIOL 253 (or BIOL 253). [GE]

EXERCISE PRESCRIPTION I – HEALTHY POPULATIONS

FT 260 Winter 5 Credits

44 hours of lecture 22 hours of lab

Designing client-centered fitness plans intended to help apparently healthy clients achieve their health and fitness goals in a safe and effective manner. Prerequisite: A grade of "C" or better in ENGL& 101 or ENGL 135 (or ENGL 101 or 111), FT 210 and FT 251. [GE]

EXERCISE PRESCRIPTION II - SPECIAL POPULATIONS

FT 261 Spring 5 Credits

55 hours of lecture

Designing individualized fitness plans to help clients with special needs achieve their health and fitness goals in a safe and effective manner. Prerequisite: A grade of "C" or better in FT 260. [GE]

EXERCISE PRESCRIPTION III – PERFORMANCE TRAINING

FT 262 Spring 4 Credits

22 hours of lecture 44 hours of lab

Emphasizes endurance and resistance training methodology. Lifting techniques, and teaching methods for body building/sculpting, power lifting, and Olympic lifting are addressed. Technical, tactical and conditioning aspects of endurance training focus on swimming, bicycling, running and cardio machines. Prerequisite: A grade of "C" or better in FT 260. [GE]

PROFESSIONAL ASPECTS OF FITNESS TRAINING

FT 270 Winter 3 Credits

33 hours of lecture

Focuses on personal training as a business: business planning, marketing, customer service, work ethic, management systems, resume development and interviewing skills. [GE]

FITNESS TRAINING INTERNSHIP

FT 275 Spring 4 Credits

132 hours of clinical

Experience hands-on fitness training at one or more approved worksites. Prerequisite: A grade of "C" or better in FT 220. [GE]

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SPECIAL TOPICS

FT 280 1 – 5 Credits

55 hours of lecture

Varying topics in the Fitness Training Industry, as listed in the quarterly class schedule. May be repeated for credit. [GE]

SPECIAL PROJECTS

FT 290 Summer Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize, and complete special projects approved by the department. Prerequisite: Consent of Instructor.

FINAL SKILL ASSESSMENT

FT 299 Spring 1 Credit

22 hours of lab

Comprehensive assessment of Fitness Trainer AAS degree student learning outcomes. Students must pass this course at 70% or better to earn their AA-Fitness Trainer from Clark College. Prerequisite: A grade of "C" or higher for FT 260.

Food – Culinary Arts

FOOD SERVICE

FOOD 102 Fall 4 Credits

88 hours of lab

Line and line backup, serving methods, portion control, and cash register training. [GE]

FOOD SERVICE

FOOD 103 Winter 4 Credits

88 hours of lab

Continuation of FOOD 102, with greater emphasis on particular line positions and their interactions with the whole line's purpose. [GE]

FOOD SERVICE

FOOD 104 Spring 4 Credits

88 hours of lab

Continuation of FOOD 103 with further emphasis on line positions and an analysis of customer relations. [GE]

FOOD SERVICE

FOOD 105 Summer 4 Credits

88 hours of lab

Serving under banquet, catering, fast food and take-out conditions. Preparation and clean up. [GE]

COOKING THEORY

FOOD 111 Fall 5 Credits

55 hours of lecture

Theory including equipment safety, kitchen methods, soups, stocks, and salads. Concurrent enrollment in FOOD 112 required. [GE]

FOOD PRODUCTION

FOOD 112 Fall 4 Credits

88 hours of lab

Sanitation, safety, entrees, casseroles, fruit, and quick breads. Careers in the food industry. Concurrent enrollment in FOOD 111 required. [GE]

COOKING THEORY

FOOD 113 Winter 5 Credits

55 hours of lecture

Theory including sanitation, safety, entrees, casseroles, fruit, quick breads, and careers in the food industry. Also includes garde manger (food decoration). Concurrent enrollment in FOOD 114 required. [GE]

FOOD PRODUCTION

FOOD 114 Winter 4 Credits

88 hours of lab

Continuation of FOOD 112. Production cooking and management related to topics covered in FOOD 113. Concurrent enrollment in FOOD 113 required. [GE]

COOKING THEORY

FOOD 115 Spring 5 Credits

55 hours of lecture

Theory including safety, sanitation, vegetable preparation, desserts, and job interviewing. Concurrent enrollment in FOOD 116 required. [GE]

FOOD PRODUCTION

FOOD 116 Spring 4 Credits

88 hours of lab

Continuation of FOOD 114. Production cooking and management related to topics covered in FOOD 115. Concurrent enrollment in FOOD 115 required. [GE]

COOKING THEORY

FOOD 117 Summer 5 Credits

55 hours of lecture

Problems involved in preparation for banquets, catering, fast food and take-out food services. Concurrent enrollment in FOOD 118 required. [GE]

FOOD PRODUCTION

FOOD 118 Summer 4 Credits

88 hours of lab

Banquet, catering, deli and fast food. Concurrent enrollment in FOOD 117 required. [GE]

KITCHEN SET-UP

FOOD 120 Fall 2 Credits

44 hours of lab

Opening up a kitchen, inventorying food, setting-up food stations, turning on all equipment, pre-planning the day's activities, and breakfast cooking. [GE]

KITCHEN SET-UP

FOOD 121 Winter 2 Credits

44 hours of lab

Continuation of FOOD 120 with further emphasis on efficient kitchen operations. Prerequisite: FOOD 120. [GE]

KITCHEN SET-UP

FOOD 122 Spring 2 Credits

44 hours of lab

Learning kitchen equipment set-up. Getting kitchen stations ready for the day's food preparation. [GE]

KITCHEN SET-UP

FOOD 123 Summer 2 Credits

44 hours of lab

Setting-up a dining room and working with problems of pre-opening operations. [GE]

FOOD DECORATION

FOOD 125 Summer Fall Winter Spring 3 Credits

22 hours of lecture 22 hours of lab

Garnishing techniques with fruits and vegetables. Dessert garnishes and basic use of pastry bag and tips. [GE]

ADVANCED GARDE MANGER

FOOD 126 Fall Winter Spring 3 Credits

22 hours of lecture 22 hours of lab

Garnishing techniques with fruits and vegetables. Advanced melon and flower carving. Use of these and other items to create presentation pieces or centerpieces. [GE]

HORS D'OEUVRES - PATES

FOOD 127 Fall Winter Spring 3 Credits

22 hours of lecture 22 hours of lab

Basic preparation of pates and terrines and other related forcemeat preparation -- quenelles, galantines, ballotines, etc. Discussion of French terminology, especially pertaining to garde manger – selection, preparation, and presentation of hors d'oeuvres for entertaining. [GE]

GUMPASTE FLOWERS

FOOD 128 Fall Winter Spring 3 Credits

22 hours of lecture 22 hours of lab

Basics of preparing, handling, molding, and drying gumpaste (pastillage) flowers. [GE]

ICE CARVING

FOOD 130 Fall Winter Spring 3 Credits

22 hours of lecture 22 hours of lab

Basic ice carving and display techniques. Use of tools and templates. [GE]

DINING ROOM THEORY

FOOD 131 Summer Fall Winter Spring 4 Credits

44 hours of lecture

Theory and practice of restaurant table service including customer psychology, taking and filling orders, table setting, and styles of service. [GE]

DINING ROOM PRODUCTION

FOOD 132 Summer Fall Winter Spring 5 Credits

110 hours of lab

Organization and set-up of dining room prior to operation, stocking of "service" stations, and dining table set-up. [GE]

DINING ROOM SERVICE

FOOD 133 Summer Fall Winter Spring 5 Credits

110 hours of lab

Restaurant table service and practice including taking, writing and placing orders, customer seating and service, cash control, and special problems. [GE]

SOUPS AND SAUCES

FOOD 134 Fall Winter Spring 3 Credits

22 hours of lecture 22 hours of lab Methods of making basic and advanced soups and sauces. [GE]

WINE APPRECIATION

FOOD 140 Fall Winter Spring 3 Credits

33 hours of lecture

History of wines: how they are made, aged, and stored, along with actual tasting sessions to educate the palate. [GE]

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MENU PLANNING

FOOD 141 Fall Winter Spring 3 Credits

33 hours of lecture

Basic principles of nutrition and menu planning. [GE]

COOPERATIVE WORK EXPERIENCE

FOOD 199 Summer Fall Winter Spring 1 – 5 Credits

165 hours of clinical

Supervised work experience in a hospitality-related job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit. [GE]

MANAGEMENT THEORY

FOOD 223 Fall 5 Credits

55 hours of lecture

Purchasing, receiving, and inventorying of food supplies. Calculating labor-cost percentages. Concurrent enrollment in FOOD 240 required. Prerequisite: Consent of Instructional Unit. [GE]

MANAGEMENT THEORY

FOOD 225 Winter 5 Credits

55 hours of lecture

Decorating with food, buffet set-ups, hors d'oeuvres, canapes, basic and gourmet food preparation including ice carving and tallow showpieces. Concurrent enrollment in FOOD 241 required. Prerequisite: Consent of Instructional Unit. [GE]

MANAGEMENT THEORY

FOOD 227 Spring 5 Credits

55 hours of lecture

Menu analysis, restaurant security, job applications, resumes and interviews. Concurrent enrollment in FOOD 242 required. Prerequisite: Consent of Instructional Unit. [GE]

MANAGEMENT THEORY

FOOD 229 Summer 5 Credits

55 hours of lecture

Advanced food preparation techniques and classical cooking information. Scheduling and layout for banquets and buffets. Concurrent enrollment in FOOD 243 required. Prerequisite: Consent of Instructional Unit. [GE]

BEGINNING MEAT CUTTING

FOOD 235 Fall Winter Spring 3 Credits

11 hours of lecture 44 hours of lab

Individualized study of meat-cutting techniques related to retail sales and commercial use. [GE]

INTERMEDIATE MEAT CUTTING

FOOD 236 Fall Winter Spring 3 Credits

11 hours of lecture 44 hours of lab

Study of meat-cutting techniques for beef, pork, poultry, and lamb. Brief overview of cooking techniques for the various cuts of meat. Prerequisite: FOOD 235. [GE]

ADVANCED MEAT CUTTING

FOOD 237 Fall Winter Spring 3 Credits

11 hours of lecture 44 hours of lab

To supply the students with the knowledge, technical skills and information necessary to manage all phases of meat and poultry cutting in a food service operation. Prerequisite: FOOD 235 and 236. [GE]

RESTAURANT MANAGEMENT

FOOD 240 Fall 8 Credits

176 hours of lab

Practical instruction in restaurant management by working at various management stations. Prerequisite: Consent of Instructional Unit. [GE]

RESTAURANT MANAGEMENT

FOOD 241 Winter 8 Credits

176 hours of lab

Practical instruction in restaurant management by working at various management stations. Prerequisite: FOOD 240 or consent of Instructional Unit. [GE]

RESTAURANT MANAGEMENT

FOOD 242 Spring 8 Credits

176 hours of lab

Practical instruction in restaurant management by working at various management stations. Prerequisite: FOOD 241 or consent of Instructional Unit. [GE]

RESTAURANT MANAGEMENT

FOOD 243 Summer 8 Credits

176 hours of lab

Practical instruction in restaurant management by working at various management stations. Prerequisite: FOOD 242 or consent of Instructional Unit. [GE]

ADVANCED KITCHEN SET-UP

FOOD 250 Fall 2 Credits

44 hours of lab

Staff management and early morning kitchen set-up. [GE]

ADVANCED KITCHEN SET-UP

FOOD 251 Winter 2 Credits

44 hours of lab

Organization and set-up of management stations. [GE]

ADVANCED KITCHEN SET-UP

FOOD 252 Spring 2 Credits

44 hours of lab

Organization and set-up of management stations. [GE]

ADVANCED KITCHEN SET-UP

FOOD 253 Summer 2 Credits

44 hours of lab

Organization and set-up of management stations. [GE]

SPECIAL PROJECTS

FOOD 290 Summer Fall Winter Spring 1 – 12 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

Forensic Science

SURVEY OF FORENSIC SCIENCE

FSCI 101 Spring 3 Credits

33 hours of lecture

An introduction to the Forensic Sciences: crime scene analysis and recording, the crime laboratory, Forensic Medicine, Dentistry, Anthropology, Psychology, and other topics. [SE]

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SELECTED TOPICS: FORENSIC SCIENCE

FSCI 280 3 Credits

33 hours of lecture

Selected topics in the Forensic Sciences as listed in the quarterly schedule. May be repeated for credit. Prerequisite: None/or Law enforcement officers only for some topics. [SE]

SPECIAL PROJECTS

FSCI 290 1 – 5 Credits

Varying topics in the forensic sciences as listed in the quarterly class schedule. May be repeated for credit. Prerequisite: Consent of Instructional Unit. [GE]

French

FRENCH I

FRCH& 121 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Communicating in French with practice in listening, speaking, writing, and reading. [HA, SE]

FRENCH II

FRCH& 122 Fall Winter Spring 5 Credits

55 hours of lecture

Continuation of FRCH& 121. [HA, SE]

FRENCH III

FRCH& 123 Winter Spring 5 Credits

55 hours of lecture

Continuation of FRCH& 122. [HA, SE]

CONVERSATIONAL FRENCH

FRCH 141 3 Credits

33 hours of lecture

Intensive practice in French conversation. Discussion in pairs or small groups on topics of interest to those studying French-speaking societies. Prerequisite: Consent of Instructional Unit. Formerly FREN 141. Credit not allowed for both FREN 141 or FRCH 141. [HB, SE]

STUDY ABROAD ORIENTATION

FRCH 150 1 Credit

11 hours of lecture

Preparing students to travel with the Clark College study abroad program to a French-speaking country. Successful completion of the course required for students to participate in the travel abroad program. Application and acceptance into the study abroad program also required. Prerequisite: A grade of "C" or better or concurrent enrollment in FRCH& 121 or above; or consent of Instructional Unit.

FRENCH IV

FRCH& 221 Fall Winter Spring 5 Credits

55 hours of lecture

Review of basic structures, expansion of conversation, and reading skills. [HA, SE]

FRENCH V

FRCH& 222 Fall Winter Spring 5 Credits

55 hours of lecture

Review of basic structures, expansion of conversation, and reading skills. Prerequisite: FRCH & 221 or equivalent. [HA, SE]

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FRENCH VI

FRCH& 223 Fall Winter Spring 5 Credits

55 hours of lecture

Review of basic structures, expansion of conversation, and reading skills. Prerequisite: FRCH & 222 or equivalent. [HA, SE]

SELECTED TOPICS

FRCH 280 1 – 5 Credits

55 hours of lecture

The course focuses on selected topics in French. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. Individual topics are listed in the quarterly class schedule. [SE]

SPECIAL PROJECTS

FRCH 290 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [HA, GE]

General Education

SPECIAL TOPICS

GED 005 1 – 10 Credits

110 hours of lecture

Special interest topics at the GED level for students who qualify based upon CASAS Test scores. Topics vary and course may be repeated for credit for different topics.

GED WRITING FUNDAMENTALS

GED 011 Summer Fall Winter Spring 1 – 6 Credits

66 hours of lecture

Students performing at GED level will learn to write understandable and well-constructed multiple paragraphs easily and with few errors to independently accomplish well defined and structured writing activities for varied reasons (such as for personal expression, to inform, to persuade or to complete a task) and for audiences in a range of comfortable and familiar settings. Organization, transitions, punctuation and sentence structure skills are emphasized. This course can serve as preparation for the GED Writing Test or as refresher course for basic skills improvement. Prerequisite: Appropriate CASAS score.

GED MATH I

GED 021 Summer Fall Winter Spring 1 – 6 Credits

66 hours of lecture

Students will learn to read, write, interpret, and apply a wide variety of mathematical information such as the following: money/expenses/prices, percentages, decimals, fractions, patterns and formulas, units of measurement including fractional units, geometrical shapes including shapes containing a combination of common shapes, concept of volume, and ways to interpret, represent and draw implications from data (graphs, tables, and simple forms of statistical analysis). Prerequisite: ABE MATH 024 or appropriate CASAS placement score.

GED READING II

GED 032 Summer Fall Winter Spring 1 – 2 Credits

22 hours of lecture

Analysis of literature, science and social studies readings. Skills include distinguishing between fact and opinion, understanding elements of style and structure, interpreting charts and graphs, and increasing comprehension. Test taking skills taught and practiced. Last in a series of courses for improvement of basic skills in reading. This course serves as preparation for the GED Reading Tests in Literature, Science and Social Studies, or as a refresher course for basic skills improvement. Prerequisite: ABE 034 or recommending score on placement test.

GED READING: LITERATURE

GED 033 Summer Fall Winter Spring 1 – 2 Credits

22 hours of lecture

Developing and refining secondary level reading and test taking skills with literary texts. Uses of works of nonfiction, fiction, poetry, and drama to develop competencies in comprehension, application, analysis, synthesis, and evaluation of concepts; last in a series of courses in preparation for the GED Language Arts Reading Test and a refresher for basic skills reading improvement. Prerequisite: ABE 034 Reading or recommending score on CASAS pretest.

GED READING, SOCIAL STUDIES

GED 035 Summer Fall Winter 1 – 2 Credits

22 hours of lecture

Developing strong secondary reading and critical thinking skills with social studies materials. Exercises involve reading social studies passages and interpreting graphs, charts, maps, cartoons, diagrams, and photography. Content includes world history, civics and government, economics and geography, last in a series of courses in preparation for the GED Social Studies Test and a refresher for basic skills reading improvement. Prerequisite: ABE 044 Reading or recommending score on CASAS pretest.

GED READING: SCIENCE 037

GED 037 Summer Fall Winter Spring 1 – 2 Credits

22 hours of lecture

Developing strong secondary reading and critical thinking skills with scientific materials. Exercises involve reading scientific passages and interpreting graphs, charts, maps, and diagrams. Content includes earth and space science, life science, and physical science (physics and chemistry); the last in a series of courses in preparation for the GED Science Test, a refresher for basic skills reading improvement. Prerequisite: ABE 044 or recommending score on CASAS pretest.

I-BEST SUPPORT

GED 071 1 – 6 Credits

66 hours of lecture

Provides Basic Skills students extra instruction and support for success in their I-BEST designated classes. Reviews important concepts and vocabulary introduced during I-BEST classes. Provide opportunities to develop culturally unfamiliar customer service and interaction skills needed to be successful in I-BEST occupations. Prerequisite: Admission into an I-BEST program.

WRITING BASICS FOR GED

GED 094 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Emphasis on writing more fluently, clearly, and correctly. Building skills through exercises in grammar, writing responses to assigned readings, and planning, organizing, drafting, and revising paragraphs. In-class and out-of-class paragraphs are required. Prerequisite: CASAS score of 240 or higher, or permission of instructor.

Geography

INTRODUCTION TO GEOGRAPHY

GEOG& 100 Fall Winter Spring 5 Credits

55 hours of lecture

Survey of our natural environment, Earth-Sun-Moon relationships, cartography, weather and climate, landforms, soils, oceans, and water and biotic resources. Also a survey of the countries and major features of the world.

WORLD PHYSICAL GEOGRAPHY

GEOG 101 Fall Winter Spring 5 Credits

55 hours of lecture

Survey of our natural environment. Earth-Sun-Moon relationships, cartography, weather and climate, landforms, soils, oceans, and water and biotic resources. Also a survey of the countries and major features of the world. [SE, SS]

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ECONOMIC GEOGRAPHY

GEOG 107 Winter 5 Credits

55 hours of lecture

Broad patterns, courses, and consequences of interrelationships between economic and geographic forces, processes, and resources. Location of economic activity, population dynamics, strategic resources, global economic flashpoints, patterns/consequences of regional integration. Same as ECON 107. Credit not allowed for both ECON 107 and GEOG 107. [SE, SS]

THE GEOPOLITICS OF THE MIDDLE EAST

GEOG 220 Summer Spring 5 Credits

55 hours of lecture

Geo-political survey of the Middle East, including interrelationships between the physical, economic and political geography of this region, the impact of geography on politics and political issues within the nations of this region, the corresponding impact of politics and political issues on geography and on the lives of the people living in this region, as well as the resulting diversity of cultures, beliefs, perceptions, challenges and issues among the people of this region. This course will also examine the importance and impact of the Middle East on the rest of the world, as well as the impact and influence of the rest of the world on the Middle East. Credit not allowed for both GEOG 220 and POLS 220. [SE]

THE GEOPOLITICS OF AFRICA

GEOG 221 Summer Spring 5 Credits

55 hours of lecture

Geo-political survey of Africa, including interrelationships between the physical, economic and political geography of this region, the impact of geography on politics and political issues within the nations of this region, the corresponding impact of politics and political issues on geography and on the lives of the people living in this region, as well as the resulting diversity of cultures, beliefs, perceptions, challenges and issues among the people of this region. This course will also examine the importance and impact of Africa on the rest of the world, as well as examine the impact and influence of the rest of the world on Africa. Credit not allowed for both GEOG 221 and POLS 221. [SE]

THE GEOPOLITICS OF CHINA, JAPAN & EAST ASIA

GEOG 222 Summer Spring 5 Credits

55 hours of lecture

Geo-political survey of China, Japan and East Asia, including interrelationships between the physical, economic and political geography of this region, the impact of geography on politics and political issues within the nations of this region, the corresponding impact of politics and political issues on geography and on the lives of the people living in this region, as well as the resulting diversity of cultures, beliefs, perceptions, challenges and issues among the people of this region. This course will also examine the importance and impact of China, Japan and East Asia on the rest of the world, as well as examine the impact and influence of the rest of the world on China, Japan and East Asia. Credit not allowed for both GEOG 222 and POLS 222. [SE]

THE GEOPOLITICS OF SOUTH AND CENTRAL ASIA

GEOG 223 Summer Spring 5 Credits

55 hours of lecture

Geo-political survey of South and Central Asia, including interrelationships between the physical, economic and political geography of this region, the impact of geography on politics and political issues within the nations of this region, the corresponding impact of politics and political issues on geography and on the lives of the people living in this region, as well as the resulting diversity of cultures, beliefs, perceptions, challenges and issues among the people of this region. This course will also examine the importance and impact of South and Central Asia on the rest of the world, as well as examine the impact and influence of the rest of the world on South and Central Asia. Credit not allowed for both GEOG 223 and POLS 223. [SE]

SELECTED TOPICS

GEOG 280 1 – 5 Credits

55 hours of lecture

Course focuses on selected topics in Geography. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. [SE]

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SPECIAL PROJECTS

GEOG 290 Winter Spring 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

Geology

INTRO PHYSICAL GEOLOGY

GEOL& 101 Fall Winter Spring 5 Credits

33 hours of lecture 44 hours of lab

A dynamic earth, geologic time, origin and identification of minerals and rocks. Volcanoes, earthquakes and the structure of earth in light of plate tectonic theory. One day field trip required. [NS, SE]

INTRO TO GEOL II: EARTH'S SURFACE PROCESSES

GEOL 102 Fall Winter Spring 5 Credits

33 hours of lecture 44 hours of lab

Plate tectonics and the origin of ocean basins and continents. Mass wasting, glaciation, streams, groundwater, deserts, shorelines and deep sea sediments. One day field trip required. [NS, SE]

HISTORICAL GEOLOGY

GEOL& 103 Spring 5 Credits

33 hours of lecture 44 hours of lab

Physical, chemical, and biologic evolution of the earth as determined from the rock record. Interpretation of ancient environments through stratigraphy and biostratigraphy. Plate tectonics, earth history, and fossil identification. Field trips required. Prerequisite: Five credits in GEOL or consent of Instructional Unit. [NS, SE]

NORTHWEST GEOLOGY

GEOL 109 Fall Winter Spring 5 Credits

55 hours of lecture

Geologic evolution of the Pacific Northwest emphasizing the development of the Cascades, Columbia River Plateau, Coast Ranges, Puget-Willamette Lowlands, San Juan Islands, High Lava Plains and the Okanogan Highlands. Field trips required. This class is a non-lab science. [NS, SE]

COOPERATIVE WORK EXPERIENCE

GEOL 199 Fall Winter Spring 1 – 3 Credits

99 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit. [GE]

FIELD STUDIES IN GEOLOGY

GEOL 218 Spring 1 – 6 Credits

22 hours of lecture 88 hours of lab

Field trip program to study the geologic evolution of an area. Emphasis on interpretation of rocks and their structure. Duration, scope and field trip localities will vary. Food and personal gear provided by student. Maxivans provided for travel. Day hikes may be required. Prerequisite: Minimum of 10 credits in geology or consent of Instructional Unit. [NS, SE]

SPECIAL PROJECTS

GEOL 290 Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

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German

GERMANI

GERM& 121 Fall Winter Spring 5 Credits

55 hours of lecture

Oral and written communication in German. Use of basic vocabulary and structures to acquire information and to express personal interests, needs and opinions on familiar topics. Contemporary German culture. [HA, SE]

GERMAN II

GERM& 122 Fall Winter Spring 5 Credits

55 hours of lecture

Continuation of GERM& 121 with emphasis on developing the students' ability to express themselves freely on familiar topics. [HA, SE]

GERMAN III

GERM& 123 Fall Winter Spring 5 Credits

55 hours of lecture

Continuation of GERM& 122 with emphasis on developing students' ability to express themselves freely on familiar topics. [HA, SE]

BERLIN IN FILM AND LITERATURE

GERM 150 Summer 3 Credits

33 hours of lecture

Survey of Berlin during two centuries of recent history, using a critical exploration of literary, filmic, and artistic works on and of Berlin. Conducted in English, this course is open to all students and is mandatory before departure for students participating in the German Studies in Berlin Program. While open to the campus, this course is required for those students accepted into the German Studies in Berlin Program and will be offered in the summer prior to departure for Germany. Course will be conducted in English. There are no language prerequisites.

INTERNATIONAL COOPERATIVE WORK EXPERIENCE

GERM 199 Spring 1 – 10 Credits

330 hours of clinical

Summer cooperative work experience in a German-speaking country. Requires use of German language. Enroll in this course Spring quarter prior to participation abroad. Concurrent enrollment in GERM 140. Prerequisite: Consent of Instructional Unit.

GERMAN IV

GERM& 221 Fall Winter Spring 5 Credits

55 hours of lecture

Thematic approach to contemporary German culture and literature. Discussions and papers in German. Grammar review. [HA, SE]

GERMAN V

GERM& 222 Fall Winter Spring 5 Credits

55 hours of lecture

Thematic approach to contemporary German culture and literature. Discussions and papers in German. Grammar review. Prerequisite: GERM& 221 or equivalent. [HA, SE]

GERMAN VI

GERM& 223 Fall Winter Spring 5 Credits

55 hours of lecture

Thematic approach to contemporary German culture and literature. Discussions and papers in German. Grammar review. Prerequisite: GERM& 222 or equivalent. [HA, SE]

SELECTED TOPICS

GERM 280 1 – 5 Credits

55 hours of lecture

Course focuses on selected topics in German. Topics vary and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. [SE]

SPECIAL PROJECTS

GERM 290 Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [HA, GE]

Health

FOOD AND YOUR HEALTH

HLTH 100 Summer Fall Winter Spring 2 Credits

22 hours of lecture

Explores the relationship between personal nutrition, high-level wellness and disease prevention. Promotes nutritional awareness, consumer concerns and emphasizes individual nutritional needs. [HE, SE]

HEALTH FOR ADULT LIVING

HLTH 101 Summer Fall Winter Spring 3 Credits

33 hours of lecture

Emphasizes the dynamics involved in pursuing high level wellness. Addresses human health issues, health related behavior change, assessing personal disease risk and healthy lifestyle promotion. [HE, SE]

ENVIRONMENTAL HEALTH

HLTH 103 Summer Fall Winter Spring 2 Credits

22 hours of lecture

Explores environmental threats to human health. Topics include hazards related to poverty: safe drinking water, sanitation, food safety, inadequate solid waste disposal, and occupational injuries. Problems of developed countries related to unsustainable consumption will also be addressed: pollution (air, water, soil), solid and hazardous wastes, emerging infectious diseases, deforestation, land degradation and climate. [HE, SE]

WEIGHT AND YOUR HEALTH

HLTH 104 Fall Winter Spring 2 Credits

22 hours of lecture

Study of what a healthy body weight is and methods for achieving it to improve body function and reduce disease risks; study of evidence for the cultural, psychological, physiological, and environmental influences on weight issues. [HE, SE]

ADULT CPR AND FIRST AID

HLTH 120 Summer Fall Winter Spring 1 Credit

11 hours of lecture

Introduction to adult CPR and general first aid skills that will prepare the student to recognize emergencies, make first aid decisions, and provide care. Upon successful completion of the course, students will receive Adult CPR and Standard First Aid certification. Does not meet AA distribution requirement. [GE]

ADULT, CHILD, AND INFANT CPR

HLTH 121 Summer Fall Winter Spring 1 Credit

11 hours of lecture

Introduction to adult, child and infant CPR skills that will prepare the student to recognize emergencies, make appropriate decisions, and provide emergency care. Upon successful completion of the course, students will receive Adult, Child and Infant CPR certification. [GE]

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WILDERNESS FIRST AID

HLTH 122 Summer 2 Credits

22 hours of lecture

Foundation of first aid principles and skills necessary to respond to emergencies where immediate emergency medical services are not available, such as wilderness, remote environments, and urban disasters. Prerequisite: Proof of current Adult CPR/AED certification (bring to first class).

CO-OP WORK EXPERIENCE

HLTH 199 1 – 3 Credits

99 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit. [GE]

HUMAN SEXUALITY

HLTH 206 Fall Winter Spring 2 Credits

22 hours of lecture

Study of improved sexual health. Topics include intimacy, family planning, reproductive health, sexual orientation, gender norms, sexual victimization, sexual behaviors, and how society and history shape sexuality. [HE, SE]

WOMEN'S HEALTH

HLTH 207 Fall Winter Spring 2 Credits

22 hours of lecture

Examines the specific health concerns of women. Emphasis is placed on understanding the interplay between physical and emotional health as well as hormonal cycles, reproduction, nutrition, infectious disease, cancer and cardiovascular disease. [HE, SE]

MEN'S HEALTH

HLTH 208 Fall Winter Spring 2 Credits

22 hours of lecture

Examines health topics as they relate to men's physical and emotional health. Topics include nutrition, body image, masculinity, major diseases facing men, sexuality, sexually transmitted infections, alcohol and drug abuse, basic exercise planning, and stress management.

MULTICULTURAL HEALTH

HLTH 210 Fall Winter Spring 2 Credits

22 hours of lecture

Emphasis on multicultural diversity in health beliefs and practice. Class examines and contrasts alternative healing modalities with the western medical model. Cultural traditions of a wide variety of ethnic and racial groups are explored. [HE, SE]

HEALTHY AGING

HLTH 278 Spring 2 Credits

22 hours of lecture

Exploration of guidelines and behaviors associated with successful aging in the areas of physical, emotional, social, spiritual, intellectual and environmental wellness. Topics include ageism, age-associated changes to the body, the role genetics and lifestyle each play in healthy aging, and end of life health issues. [HE, SE]

SELECTED TOPICS

HLTH 280 1 – 3 Credits

33 hours of lecture

Course focuses on selected topics in health. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. [SE]

SPECIAL PROJECTS

HLTH 290 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

Health & Physical Education

INDUSTRIAL HEALTH AND FITNESS

HPE 220 Summer 3 Credits

22 hours of lecture 22 hours of lab

Study of health and fitness for those entering the workforce in industrial jobs. Includes workplace safety and First Aid/CPR skills. Health issues explored include nutrition, fitness, stress management, substance abuse, and disease prevention. Students will be eligible to receive CPR/First Aid certification. [GE]

FITNESS-WELLNESS

HPE 258 Summer Fall Winter Spring 3 Credits

22 hours of lecture 22 hours of lab

A foundation course that promotes a better life experience through knowledge of wellness and implementation of positive fitness practices. Emphasis is placed on overall wellness, behavior modification, fitness components, disease risk factors, nutrition, weight management, and stress management. Includes lecture and lab components. [HP, SE]

MIND BODY HEALTH

HPE 266 Fall Winter Spring 3 Credits

22 hours of lecture 22 hours of lab

An investigation of the integral relationship between mind and body and how that relationship manifests itself in health, illness, and promotion of healing. Philosophical and scientific foundations of mind/body health will be explored. Techniques such as self-awareness, relaxation, meditation, exercise, diet, biofeedback and visual imagery will be explored in lab. [HP, SE]

SELECTED TOPICS

HPE 280 1 – 5 Credits

55 hours of lecture

Varying topics in Health Physical Education and sports, as listed in the quarterly class schedule. May be repeated for credit. [SE]

SPECIAL PROJECTS

HPE 290 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

Health Occupations

MATH FOR MEDICATION ADMINISTRATION

HEOC 011 Fall Winter Spring 1 Credit

11 hours of lecture

Mathematical concepts related to the metric system and calculating dosages for oral and injectable medications, and converting Fahrenheit to Celsius. Designed to prepare an individual for the safe preparation and administration of medications in a physician's office, clinic or emergi-center. Prerequisite: Qualifying score on the college numerical skills placement for MATH 030 or higher or consent of Instructional Unit.

MATH REVIEW FOR DENTAL HYGIENE

HEOC 012 Spring 1 Credit

11 hours of lecture

Math refresher for Dental Hygiene students. Concurrent enrollment in DH 163 required.

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BASIC CHEMICAL CONCEPTS

HEOC 030 Fall 2 Credits

22 hours of lecture

Basic structure of matter and its interaction at the atomic level. Chemical vocabulary, natural laws, physical properties, and the symbolism used in chemistry will be developed.

PHLEBOTOMY REMEDIATION

HEOC 080 1 Credit

6 hours of lecture 11 hours of lab

Provides additional laboratory practice of phlebotomy skills and reinforces material related to the clinical practice of phlebotomy. For students who earned a "B" in the lecture portion of HEOC 115 but were clinically incomplete in laboratory portion of the course and have their instructor's recommendation for remediation. A grade of "B" or better is required in this course to be eligible for enrollment in HEOC 197 and 198 Phlebotomy Practicum and Seminar. Prerequisite: A grade of "B" or better in HEOC 115 lecture and departmental permission.

HEALTH CAREERS EXPLORATION

HEOC 090 Fall Spring 2 Credits

22 hours of lecture

For persons interested in exploring careers in health occupations. Includes an overview of job opportunities in a variety of medical fields, professional interviews, guest speakers, individualized interest testing and information related to health career programs available at Clark College and the greater metropolitan area.

BASIC CONCEPTS OF ANATOMY AND PHYSIOLOGY

HEOC 100 Summer Fall Winter Spring 3 Credits

33 hours of lecture

Introduction to basic anatomical and physiological concepts as they apply to the following health occupations: EMT, Pharmacy Tech, Medical Assisting, and Phlebotomy. Basic overview of all body systems including the respiratory, muscular, urinary, reproductive, digestive, cardiovascular, lymphatic, immune, nervous skeletal, integumentary and the senses. Concurrent enrollment is linked HEOC 101 lab. [GE]

BASIC CONCEPTS OF ANATOMY & PHYSIOLOGY LAB

HEOC 101 Summer Fall Winter Spring 1 Credit

22 hours of lab

Laboratory companion to HEOC 100. Activities which apply concepts taught in the lecture section to clinical practice. Designed especially for students enrolled in the Medical Assisting program. This course is for most Medical Office Programs, Phlebotomy and EMT 103. Concurrent enrollment in HEOC 100. [GE]

HEALTH CAREERS EXPLORATION

HEOC 102 Summer Fall Winter Spring 2 Credits

22 hours of lecture

Exploring careers in health occupations including an overview of job opportunities in a variety of medical fields; professional interviews; guest speakers; individualized interest testing and information related to health career programs available at Clark College and the greater metropolitan area.

PHLEBOTOMY EDUCATION

HEOC 115 Summer Winter 3 Credits

22 hours of lecture 22 hours of lab

Prepares student to perform skin and venipunctures, to obtain suitable laboratory specimens and to function as a member of the medical laboratory team. Includes laboratory practice. Prerequisite: BMED 110 and written consent of Health Occupations Advisor. [GE]

AIDS EDUCATION

HEOC 120 Summer Fall Winter Spring 1 Credit

11 hours of lecture

A comprehensive look at AIDS, etiology, epidemiology, clinical manifestations, treatment, transmission, testing,

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legal, ethical and psychological issues. Fulfills Washington State Department of Licensing requirement for license renewal for persons governed by Chapter 18.130.RCW. [GE]

MEDICAL VOCABULARY

HEOC 125 Summer Fall Winter Spring 3 Credits

33 hours of lecture

Introduction to medical terminology and abbreviations, medical roots, prefixes and suffixes with emphasis on analysis and word building skills. Human anatomy and physiology will be related to their respective terms, combining forms, pathological conditions, clinical procedures and laboratory tests. Emphasis will be placed on spelling, pronunciation and abbreviations. [GE]

PHARMACOLOGY FOR HEALTH ASSISTANTS

HEOC 130 Winter Spring 3 Credits

33 hours of lecture

Introduction to the basics of medication administration including trade and generic names of prescription and over-the-counter medications commonly prescribed, medication classifications, routes of administration, dosages, effects and implications and appropriate methods of documentation. Prerequisite: BIOL 164 (or 160) or HEOC 100, BMED 110, consent of Health Occupations or Business Technology Advisor. [GE]

LABORATORY PROCEDURES FOR THE MEDICAL OFFICE

HEOC 160 Fall Spring 4 Credits

22 hours of lecture 44 hours of lab

Specimen collection and processing. Basic laboratory tests: blood count, microscopic urine tests; microbiology specimen handling (including gram smears and basic culture techniques) blood typing and prepared test kit use. Equipment use and maintenance. Re-agent storage and handling. Lab safety emphasized. Prerequisite: A grade of "C" or better in BTEC 163 or consent of the Health Occupation Advisor. [GE]

PHLEBOTOMY CLINICAL EXPERIENCE

HEOC 197 Fall Spring 4 Credits

132 hours of clinical

Supervised phlebotomy experience in a health care facility. Provides students with the opportunity to apply knowledge and skill in performing clinical procedures and in developing professional attitudes for interacting with other professionals and consumers. Concurrent enrollment in HEOC 198 is required. Prerequisite: Completion of HEOC 115 with a grade of "B" or better and consent of Instructional Unit.

PHLEBOTOMY CLINICAL SEMINAR

HEOC 198 Fall Spring 1 Credit

11 hours of lecture

Preparation for entry into the phlebotomy workplace. Includes discussion and practice focusing on professionalism, customer service, ethics, resume writing, and interviewing. Concurrent enrollment in HEOC 197 is required. Prerequisite: Completion of HEOC 115 with a grade of "B" or better and consent of Instructional Unit.

COOPERATIVE WORK EXPERIENCE

HEOC 199 Summer Fall Winter Spring 1 – 5 Credits

165 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit. [GE]

SELECTED TOPICS

HEOC 280 Summer Fall Winter Spring 1 – 5 Credits

55 hours of lecture

Selected topics in Health Occupations. Topics vary and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit. Specific topics are listed in the quarterly class schedule. [GE]

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SPECIAL PROJECTS

HEOC 290 Summer Fall Winter Spring

1 - 15 Credits

Learning contract with the student to meet specialized needs of the individual. Credit based upon the type of learning activities planned. Credit not applicable toward a major at Clark College. Prerequisite: Consent of the Science and Health Sciences Dean. [GE]

History

WORLD CIVILIZATIONS I

HIST& 126 Fall 5 Credits

55 hours of lecture

The beginnings of civilization, c. 3500 B.C. to the High Middle Ages, c. 950 A.D. Areas to be covered include the ancient Near East, Egypt, India, China, Greece, Rome, and early medieval Europe. [SE, SS]

WORLD CIVILIZATIONS II

HIST& 127 Winter 5 Credits

55 hours of lecture

The High Middle Ages through the Late Middle Ages, the Renaissance and Reformation eras, the emergence of early modern society, witchcraft, the Enlightenment, the formation of nation-states and continued historical development in Europe, China, India, Africa, the Near East, plus Central and South America. [SE, SS]

WORLD CIVILIZATIONS III

HIST& 128 Spring 5 Credits

55 hours of lecture

The French Revolution through modern times. Incorporated into this framework are the political, military, economic, social, cultural and religious manifestations throughout the various regions of the world. [SE, SS]

UNITED STATES HISTORY I

HIST& 146 Summer Fall 5 Credits

55 hours of lecture

Pre-Columbian era, colonial settlements and foundations of American institutions, seeds of revolution, Confederation and Constitution, federalism and states' rights, Jacksonian era. [SE, SS]

UNITED STATES HISTORY II

HIST& 147 Fall Winter 5 Credits

55 hours of lecture

Antebellum reform, Manifest Destiny, roots of Southern secession, Civil War and Reconstruction, rise of big business and organized labor, immigration and assimilation, American Imperialism and Progressive reform movement. [SE, SS]

UNITED STATES HISTORY III

HIST& 148 Winter Spring 5 Credits

55 hours of lecture

World War I, the Twenties, the Great Depression and the New Deal, World War II, the Cold War consensus, Vietnam and the Watergate era, and issues connected to the recent past. [SE, SS]

COOPERATIVE WORK EXPERIENCE

HIST 199 1 – 3 Credits

99 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit.

PACIFIC NORTHWEST HISTORY

HIST& 214 Summer Spring 5 Credits

55 hours of lecture

Survey of the political, cultural, economic and social development of the Pacific Northwest with special emphasis on Washington State history. [SE]

WOMEN IN U.S. HISTORY

HIST& 215 Fall Spring 5 Credits

55 hours of lecture

The role of women in America from the Native American women up to today. Included within these parameters will be women's contributions and status within the family, the economy, the religious communities, the legal and political systems, and the culture. [SE]

NATIVE AMERICAN HISTORY

HIST& 219 Spring 5 Credits

55 hours of lecture

A survey of Native American history from the pre-Columbian era to the Twentieth century. Topics include Indian cultures, treaty making and breaking, Indian patriots, and law and Indian rights. [SE]

EAST ASIAN HISTORY

HIST 221 Fall Spring 5 Credits

55 hours of lecture

Survey of Far Eastern history from 1800 to the present. Primary emphasis will be placed on Far East – United States diplomacy and the emergence of the Far East in the modern world. [SE]

HISTORY OF GENOCIDE

HIST 231 3 Credits

33 hours of lecture

Examination of several incidences of genocide beginning with the extermination of the Herero of Namibia in the late 19th century; utilizing the definition of genocide developed by Raphael Lemkin and adopted by the United Nations; developing criteria for recognizing when and where genocide has occurred, based on reading and lectures; developing criteria to identify a genocide in the making; designing an action plan to extend the lessons of the course.

WOMEN IN HIST - PREHISTORY THRU FALL OF ROME

HIST 251 Fall 3 Credits

33 hours of lecture

A survey of the role of women within the family, the economy and the culture from prehistory through the Middle Ages. Included within these parameters are the origins and development of patriarchy, misogyny and the view of female inferiority, women's contributions to Eastern, Middle Eastern, and Judeo/Christian religious experiences, and how women's lifecycles affected their status within society. [SE, SS]

WOMEN IN HIST - MIDDLE AGES THRU PRE-INDUST AGE

HIST 252 Winter 3 Credits

33 hours of lecture

An overview of the roles women experienced within the family, the economy, religion and culture from the Middle Ages, circa 500 A.D., through the Pre-Industrial Age. Women in the Far East, Africa, Latin and South America, the Middle East and Europe will be surveyed to compare and contrast their life styles. [SE, SS]

WOMEN IN HISTORY – INDUST AGE TO MODERN TIMES

HIST 253 Spring 3 Credits

33 hours of lecture

The role and influence of women within society from the Industrial Age to modern times. Some of the areas to be explored: women's contributions and status within the economy, the arts and literature, the various religions, and the political structures. Within these centuries occurred such events and movements where women were either influenced by or influential on the Scientific Revolution, the Enlightenment, various revolutions in the world,

beginning of Feminism, and the long debate and process of women's rights in voting, property ownership and areas of marriage and divorce. [SE, SS]

AFRICAN HISTORY

HIST 260 5 Credits

55 hours of lecture

Survey of the period from gathering/hunting societies through African independence, with focus on major events from an African perspective, including Africa's discovery of Europe, and resistance to colonialism. Prior completion of HIST& 126, 127, or 128 (or HIST 101, 102 or 103) recommended.

AFRICAN-AMERICAN HISTORY

HIST 275 Fall 5 Credits

55 hours of lecture

Survey of the history of the African-American experience from 1619 to the present. [SE]

SELECTED TOPICS

HIST 280 Fall Winter Spring 1 – 5 Credits

55 hours of lecture

Selected topics in History as listed in the quarterly class schedule. May be repeated for credit. [SE]

HISTORY OF LATIN AMERICA

HIST 285 Winter 5 Credits

55 hours of lecture

Survey of Latin American history, examining social, economic, political, cultural and intellectual trends and developments from ancient civilizations to the present Latin America in transition. [SE]

SPECIAL PROJECTS

HIST 290 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

Human Development

EFFECTIVE STUDY

HDEV 098 Summer Fall Winter Spring 2 Credits

22 hours of lecture

Learn effective study skills including goal setting, resource management, listening, note-taking, reading and test-taking skills. Appropriate for any student, particularly those working to improve basic skills and abilities necessary to move ahead to college level courses.

CAREER AND LIFE PLANNING

HDEV 100 Fall Winter Spring 3 Credits

33 hours of lecture

Examination of personal values, interests, personality preferences, skills and abilities for the purpose of determining career, educational and leisure activities. Introduction to career development theory, occupational information resources and decision-making strategies. Credit not allowed for both HDEV 100 and 101.

CAREER EXPLORATION

HDEV 101 Summer Fall Winter Spring 2 Credits

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22 hours of lecture

Strategies for career choice and change: utilizing career assessment tools, personal preferences, and occupational resources to make informed career and educational decisions. Credit not allowed for both HDEV 100 and 101.

NEW STUDENT ORIENTATION

HDEV 102 Fall Winter Spring 1 Credit

11 hours of lecture

Orientation to Clark College for new or returning students, focusing on making a successful transition to college life. Topics include goal setting, personal management skills, and developing an academic plan; introduction to Clark's campus and student resources.

ANGER AND CONFLICT MANAGEMENT

HDEV 103 2 Credits

22 hours of lecture

Develop self-control and positive personal power. Learn about personal anger triggers, appropriate versus inappropriate anger, family dynamics, communication, assertiveness, and conflict management strategies. Learn to use anger instead of letting it use you! Does not fulfill any court-mandated anger management course requirement.

SELF-ESTEEM

HDEV 105 Fall Winter Spring 2 Credits

22 hours of lecture

Guided experience in self-motivation, values clarification, and empathetic regard for others. Structured small groups. [GE]

CULTURAL AND ACADEMIC FUNDAMENTALS

HDEV 111 2 Credits

22 hours of lecture

Cross-cultural training and orientation program for all new international students at Clark College whose first language is not English and who have little or no exposure to the America college environment. Emphasis on American cultural behaviors in education settings, including guest speakers and an opportunity to visit college classes. This course is required of students who have been admitted as international students and who have not attended a college or university in the United States. Prerequisite: Admission to Clark College as an international student or consent of International Programs Office.

MOTIVATION AND STUDY SKILLS

HDEV 116 Summer Fall Winter Spring 2 Credits

22 hours of lecture

Strategies for developing student behaviors and attitudes consistent with achieving success in college. Topics include campus resources to support student success; building effective study skills; developing skills for academic planning; time management and stress management. Appropriate for any student, particularly those working to improve basic skills and abilities necessary for higher level college courses. Credit not allowed for both HDEV 116 and 117.

COLLEGE SUCCESS

HDEV 117 Summer Fall Winter Spring 3 Credits

33 hours of lecture

Strategies for successful student performance, including goal setting, academic planning, critical thinking and stress management. Focus on building effective academic skills of planning, memorizing, reading, note taking and test taking; identifying, utilizing, and evaluating campus resources and support services; fostering student responsibility for individual learning and behaviors promoting student achievement. College-level reading skills recommended. Credit not allowed for both HDEV 116 and HDEV 117.

PRACTICAL REASONING AND DECISION MAKING

HDEV 120 3 Credits

33 hours of lecture

Develop, analyze, evaluate and apply critical thinking to academic, career and personal pursuits. College level reading and eligibility for ENGL& 101 are strongly recommended.

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RELATIONSHIPS

HDEV 123 Fall Spring 2 Credits

22 hours of lecture

Strategies for strengthening relationships of all types. Designed to help participants explore relationship patterns and styles; information and skill building to facilitate more successful and satisfying relationships both personally and professionally.

ASSERTIVENESS

HDEV 155 Summer Fall Winter Spring 3 Credits

33 hours of lecture

Teaches skills needed to achieve personal goals related to assertive behavior. Focuses on reducing emotional blocks and changing thoughts, feelings, and behavior to enable one to act in their own best interest and to express themselves in challenging situations without excessive anxiety or anger. Role play is used to demonstrate and practice skills. Recommended for both those who find it difficult to speak up and those who appear abrasive. [GE]

INTRO TO SERVICE LEARNING & CIVIC ENGAGEMENT

HDEV 175 Fall Winter Spring 2 Credits

22 hours of lecture

The concept of service learning and its potential for inspiring civic engagement and community-based problem solving. Effective democratic citizenship demands awareness, knowledge, involvement, problem solving, and leadership. Through the development of a Community Action Project, we will explore all of these factors and their contributions to the development of democratic citizenship. Note: 10 hour service project requirement.

STRESS MANAGEMENT

HDEV 186 Summer Fall Winter Spring 1 Credit

11 hours of lecture

Stress is an inevitable part of life affecting health, productivity, and relationships. Too little or too much stress can cause problems. Discover your unique reactions to stress and new options for handling stressful situations. [GE]

CAREER-RELATED WORKSHOP

HDEV 190 Fall Winter Spring 1 – 3 Credits

33 hours of lecture

Independent study in career exploration. Includes testing and course-work in self-assessment, and career research while consulting with a career counselor. One to three credits can be earned based upon the amount of course work completed. Students must have instructor permission to register after the fourth week of class. [GE]

WORKPLACE SUCCESS

HDEV 195 Summer Fall Winter Spring 1 Credit

11 hours of lecture

Learn how to analyze your current work experiences to increase your success and potential for advancement. Gain knowledge specific to your work demands, develop transferable skills in human relations, information, and resource management. Satisfies the concurrent enrollment requirements for Co-op Work Experience. [GE]

PORTFOLIO DEVELOPMENT

HDEV 198 Summer Fall Winter Spring 1 Credit

11 hours of lecture

A career/employment portfolio will be developed, including a career goals statement, qualifications brief, resume, work samples, recommendations and references. Learn to effectively use the portfolio to achieve employment goals. Satisfies the concurrent enrollment requirement for co-op work experience. [GE]

COOPERATIVE WORK EXPERIENCE

HDEV 199 Summer Fall Winter Spring 1 – 5 Credits

165 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Concurrent enrollment in HDEV 195, 198 or 200 required. Prerequisite: Consent of Instructional Unit. [GE]

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PROFESSIONAL DEVELOPMENT

HDEV 200 Fall Winter Spring 2 Credits

22 hours of lecture

Job search strategies and techniques using the latest techniques and technologies, will be discussed and practiced, including preparing an electronic resume for the Internet, e-mail and computer scanner. Various methods to conduct your personalized labor market research, prepare effective cover letters, and how to secure informational or employment interviews will be learned. Guest speakers from local business and industry to speak about etiquette and ethics in the work place. May satisfy concurrent enrollment for Co-op Work Experience. [GE]

PRIOR LEARNING ASSESSMENT

HDEV 211 Summer Fall Winter Spring 3 Credits

33 hours of lecture

Introduction to the process of preparing a portfolio that demonstrates and documents knowledge and skills equivalent to college-level learning acquired through other formal or informal learning methods, including work experience, community service, personal study, travel, or sponsored training. [GE]

SELECTED TOPICS

HDEV 280 1 – 3 Credits

33 hours of lecture

Variety of topics in human development as listed in the quarterly class schedule. May be repeated for credit. [GE]

SPECIAL PROJECTS

HDEV 290 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by department 15 credits maximum. Prerequisite: Consent of Instructional Unit.

Humanities

INTRO TO HUMANITIES

HUM& 101 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Interdisciplinary exploration of the human experience and expression, which travels through multiple time periods and cultures to investigate art, philosophy, religion, politics, literature, and what it means to be "human". [HA, SE]

MUSIC, ART, THEATER AND YOU

HUM 102 1 – 3 Credits

33 hours of lecture

Here-and-now humanities class helping students acquire a first-hand experience in the variety of activities in art, music, and theater available in the area. Meeting with artists, visiting studios and galleries, and attending performances. [HA, SE]

POPULAR CULTURE

HUM 103 3 Credits

33 hours of lecture

Introduction to American Popular Culture using methodology and theory from various disciplines: music, television and cinema studies, sociology, communication studies, literature, anthropology, and history. Central questions will focus on the ways popular culture serves not simply as a reflection of a culture's beliefs and values, but also as a site of conversation between the various sub-groups that thrive in America. [HA]

INTRODUCTION TO CINEMA

HUM 152 Summer Fall Winter Spring 3 Credits

22 hours of lecture 22 hours of lab

Introductory course on the study of Film history, production techniques, aesthetics and social impact of the American film industry from early 1900's to present. [HA, SE]

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BIOETHICS

HUM 180 Fall Winter Spring 3 Credits

33 hours of lecture

A study of biological science and ethics. Ethical principles and theories are used in solving bioethical dilemmas. Concepts studied include genetic engineering, inherited disorders, cloning, physician assisted suicide, allocation of health resources, organ donation, and environmental ethics. Credit not allowed for both BIOL 180 and HUM 180. [HA, NS, SE]

INTRO TO GAY, LESBIAN, BISEXUAL & TRANS STUDIES

HUM 210 5 Credits

55 hours of lecture

An interdisciplinary survey of lesbian, gay, bisexual, and trans issues in the sciences, social sciences, and humanities with an emphasis on the period from 1900 to the present in the United States. Introduction to the most compelling and problematic aspects of modern cultural representation of and discourse on sexual and gender identity. Prerequisite: College level reading and writing recommended. [HA, SE]

SELECTED TOPICS

HUM 280 1 – 5 Credits

55 hours of lecture

Selected topics in Humanities. Topics vary and course theme and content change to reflect new topics. This course may be repeated for credit. Specific topics are listed in the quarterly class schedule. [SE]

SPECIAL PROJECTS

HUM 290 Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

Industrial Technology – Electricity

BASIC NATIONAL ELECTRICAL CODE

ITEL 071 Fall 3 Credits

33 hours of lecture

Fundamentals of the electric code. Use of the code book and its application to dwellings, industry and commerce.

BASIC NATIONAL ELECTRICAL CODE

ITEL 072 Winter 3 Credits

33 hours of lecture

Continuation of ITEL 071. Use of the code book and its application to dwellings, industry, and commerce. Emphasis on NEC Articles 250 and 220.

BASIC NATIONAL ELECTRICAL CODE

ITEL 073 Spring 3 Credits

33 hours of lecture

Continuation of ITEL 072. Use of the code book and its application to dwellings, industry, and commerce. Emphasis on NEC Articles 220 and 430. Prerequisite: ITEL 072 or consent of Instructional Unit.

BASIC DC ELECTRICITY

ITEL 131 Fall 6 Credits

44 hours of lecture 44 hours of lab

Fundamentals of DC circuits, DC instruments, batteries and application mathematics needed to complete assignments. Prerequisite: MATH 090 or consent of Instructional Unit. [GE]

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BASIC AC ELECTRICITY

ITEL 132 Winter 6 Credits

44 hours of lecture 44 hours of lab

Fundamentals of AC circuits, AC instruments, batteries and application mathematics needed to complete assignments. Prerequisite: ITEL 131. [GE]

DIGITAL ELECTRONICS

ITEL 133 Fall 5 Credits

44 hours of lecture 22 hours of lab

Applications of binary numbers and Boolean Algebra as related to combinational and sequential logic circuits employing logic gates, flip flops, counters, shift registers, encoders and decoders, multiplexers, displays, A/D and D/A converters. Prerequisite: ITEL 132 or consent of Instructional Unit. [GE]

ELECTRIC MOTORS AND CONTROLS

ITEL 141 Winter 5 Credits

44 hours of lecture 22 hours of lab

Fundamentals of modern industrial electric motor control devices including magnetic starters, overload protection devices, solid state devices, applications and troubleshooting. Prerequisite: ITEL 132 or consent of Instructional Unit. [GE]

BASIC SEMICONDUCTOR DEVICES

ITEL 142 Spring 5 Credits

44 hours of lecture 22 hours of lab

Fundamentals of solid state electronics including semiconductor devices, applications and troubleshooting. Prerequisite: ITEL 132 or consent of Instructional Unit. [GE]

INDUSTRIAL ELECTRONICS

ITEL 143 Spring 5 Credits

44 hours of lecture 22 hours of lab

Characteristics and applications of solid state devices used in industrial control circuits. Prerequisite: ITEL 142 or consent of Instructional Unit. [GE]

HIGH VOLTAGE SYSTEMS

ITEL 171 Spring 3 Credits

33 hours of lecture

Three phases and single phase distribution systems will be presented with special consideration for high voltage systems and sub-station application. [GE]

SPECIAL PROJECTS [GE]

ITEL 290 Fall Winter Spring 1 – 3 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

Japanese

JAPANESE I

JAPN& 121 Fall Winter 5 Credits

55 hours of lecture

Primary emphasis on oral communication with additional practice in basic reading and writing. Not open to native speakers except with instructor's permission. [HA, SE]

JAPANESE II

JAPN& 122 Winter Spring 5 Credits

55 hours of lecture

Continuation of JAPN& 121. Not open to native speakers except with instructor's permission. Completion of JAPN& 121 or equivalent required. [HA, SE]

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JAPANESE III

JAPN& 123 Fall Spring 5 Credits

55 hours of lecture

Continuation of JAPN& 122. Not open to native speakers except with instructor's permission. Completion of JAPN& 122 or equivalent required. [HA, SE]

STUDY ABROAD ORIENTATION

JAPN 150 1 Credit

11 hours of lecture

Preparing students to travel with the Clark College study abroad program in Japan. Successful completion of this course required for students to participate in the travel abroad program. Application and acceptance into the study abroad program also required. Prerequisite: A grade of "C" or better or concurrent enrollment in JAPN& 122 or above; or consent of Instructional Unit.

JAPANESE READING AND WRITING

JAPN 151 1 Credit

11 hours of lecture

Reading and writing about various themes and topics in Japanese and English. Focus on manga; short literature, Japanese cultural readings, and letters from Japan. Instruction in English. No prior Japanese experience necessary.

JAPANESE READING AND WRITING

JAPN 152 1 Credit

11 hours of lecture

Continuation of reading and writing about various themes and topics in Japanese and English. Focus on manga, short literature, Japanese cultural readings, and letters from Japan. Instruction in English. No prior experience in Japanese necessary. Prerequisite: A grade of "C" or better in JAPN 151.

JAPANESE READING AND WRITING

JAPN 153 1 Credit

11 hours of lecture

Continuation of reading and writing about various themes and topics in Japanese and English. Focus on manga, short literature, Japanese cultural readings, and letters from Japan. Instruction in English. No prior experience in Japanese necessary. Prerequisite: A grade of "C" or better in JAPN 152.

JAPANESE SOCIETY

JAPN 171 Spring 3 Credits

33 hours of lecture

Structure of Japanese society and organizations. Emphasis on social obligation in the nature of one's relations to others.

COOPERATIVE WORK EXPERIENCE

JAPN 199 Summer 1 – 8 Credits

264 hours of clinical

Summer cooperative work experience in Japan. Requires use of Japanese language. Enroll in this course Spring quarter prior to participation abroad. Prerequisite: Consent of Instructional Unit.

JAPANESE IV

JAPN& 221 Fall Winter Spring 5 Credits

55 hours of lecture

Continuation of First-Year Japanese: speaking, reading and writing with primary emphasis on oral communication. [HA, SE]

JAPANESE V

JAPN& 222 Fall Winter Spring 5 Credits

55 hours of lecture

Continuation of First-Year Japanese: speaking, reading and writing with primary emphasis on oral communication. Prerequisite: JAPN& 221 or equivalent. [HA, SE]

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JAPANESE VI

JAPN& 223 Fall Winter Spring 5 Credits

55 hours of lecture

Continuation of First-Year Japanese: speaking, reading and writing with primary emphasis on oral communication. Prerequisite: JAPN& 222 or equivalent. [HA, SE]

SELECTED TOPICS

JAPN 280 1 – 5 Credits

55 hours of lecture

Course focuses on selected topics in German. Topics vary and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. [SE]

Journalism

INTRODUCTION TO JOURNALISM

JOUR 101 Fall Winter 5 Credits

55 hours of lecture

Introduction to skills fundamental to journalism and newswriting, as well as an understanding of the role and significance of journalists and their work. Topics include the evolution in media and news today, ethical challenges, shifts in audience involvement and technological advances. Writing-intensive activities to master a clear, concise, accurate style. Prerequisite: ENGL& 101 (or ENGL 101) eligibility required. [SE]

COLLEGE NEWSPAPER

JOUR 121 Fall Winter Spring 1 – 3 Credits

33 hours of lecture

Real-world opportunity to practice skills and expand knowledge acquired in JOUR 101. Topics include reporting, writing, editing and producing *The Independent*, print & online versions. Focus on an understanding of and appreciation for accuracy, deadlines, and teamwork. Activities include lecture, lessons, quizzes and out-of-class reporting and writing assignments. Prerequisite: A grade of "C" or better in JOUR 101, or equivalent, or consent of Instructional Unit.

COLLEGE NEWSPAPER

JOUR 122 Fall Winter Spring 1 – 3 Credits

33 hours of lecture

To provide a realistic journalistic workshop, giving students an opportunity to learn about news judgment, making story assignments, news writing, feature writing, headline writing, news and feature photography, editing, and layout and design. Students learn to meet deadlines and work professionally with each other and with other departments and individuals on campus. Prerequisite: JOUR 121. [GE]

COLLEGE NEWSPAPER

JOUR 123 Fall Winter Spring 1 – 3 Credits

33 hours of lecture

To provide a realistic journalistic workshop, giving students an opportunity to learn about news judgment, making story assignments, news writing, feature writing, headline writing, news and feature photography, editing, and layout and design. Students learn to meet deadlines and work professionally with each other and with other departments and individuals on campus. Concurrent enrollment in a JOUR class required. Prerequisite: JOUR 122. Completion of JOUR 101 or concurrent enrollment recommended. [GE]

COOPERATIVE WORK EXPERIENCE

JOUR 199 Summer Fall Winter Spring 1 – 5 Credits

165 hours of clinical

Supervised work experience in newspaper or other journalism position. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit. [GE]

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ADVANCED NEWSWRITING

JOUR 201 Spring 3 Credits

33 hours of lecture

Continuation of JOUR 101. Focus on longer, more complex stories, including features and opinion writing. Students will complete a short research project. Prerequisite: JOUR 101. [GE]

COLLEGE NEWSPAPER

JOUR 221 Fall Winter Spring 1 – 5 Credits

55 hours of lecture

To provide a realistic journalistic workshop, giving students an opportunity to learn about news judgment, making story assignments, news writing, feature writing, headline writing, news and feature photography, editing, and layout and design. Students learn to meet deadlines and work professionally with each other and with other departments and individuals on campus. Prerequisite: JOUR 123. [GE]

COLLEGE NEWSPAPER

JOUR 222 Fall Winter Spring 1 – 3 Credits

33 hours of lecture

To provide a realistic journalistic workshop, giving students an opportunity to learn about news judgment, making story assignments, news writing, feature writing, headline writing, news and feature photography, editing, and layout and design. Students learn to meet deadlines and work professionally with each other and with other departments and individuals on campus. Prerequisite: JOUR 221. [GE]

COLLEGE NEWSPAPER

JOUR 223 Fall Winter Spring 1 – 3 Credits

33 hours of lecture

To provide a realistic journalistic workshop, giving students an opportunity to learn about news judgment, making story assignments, news writing, feature writing, headline writing, news and feature photography, editing, and layout and design. Students learn to meet deadlines and work professionally with each other and with other departments and individuals on campus. Prerequisite: JOUR 222. [GE]

NEWS EDITING

JOUR 272 Spring 3 Credits

33 hours of lecture

Basic editing skills. Emphasis on proofreading, clarity, trimming headlines. Basic modular layout, editor responsibilities and Associated Press Style. Prerequisite: ENGL 135 (or ENGL 111) or JOUR 101. [GE]

SELECTED TOPICS:

JOUR 280 Winter 1 – 3 Credits

33 hours of lecture

The course focuses on selected topics in Journalism. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. Individual topics are listed in the quarterly class schedule.

SPECIAL PROJECTS

JOUR 290 Summer Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize, and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

Library

RESEARCH IN THE INFORMATION AGE

LIBR 105 1 – 3 Credits

33 hours of lecture

Survey of information research techniques. Students will learn to locate, analyze, and evaluate information. Students will develop search strategies and use a variety of information, resources including the Internet and other

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computerized tools. Repeatable up to 3 credits. Prerequisite: Eligibility for ENGL& 101 (or ENGL 101) or consent of Department. [GE]

INTERNET RESEARCH AND LIVING ONLINE

LIBR 115 Fall Winter Spring 2 Credits

22 hours of lecture

Introduction to global networking and the Internet from the student users' perspective, emphasizing basic skills required to do research and participate as members of the Internet community. Topics include network fundamentals, strategies for locating, analyzing and evaluating information, electronic mail, Internet-based communities, social, legal and ethical issues regarding Internet interactions.

Machining Technology

MECHANICAL BLUEPRINT READING

MACH 106 Winter 4 Credits

44 hours of lecture

Fundamentals of reading mechanical blueprints. Content includes detail and assembly drawings, dimensions and tolerances, title block, material lists, notes and revisions, matching specifications, and reading blueprints in specialized areas. [GE]

BASIC GENERAL MACHINING PROCESSES

MACH 111 Summer Fall Winter Spring 5 Credits

22 hours of lecture 66 hours of lab

Instruction and practical application in general shop safety, safe practices and dangers of a machine shop environment. Demonstrations of proper use of micrometers and measurement tools. Procedures for deburring parts. Types of drill bits and their uses. Drill bit sharpening. Use of bandsaws and bandsaw blade welders. [GE]

BASIC ENGINE LATHE PROCESSES II

MACH 112 Summer Fall Winter Spring 5 Credits

22 hours of lecture 66 hours of lab

Instruction and practical application of engine lathe nomenclature and safety. Calculate speeds and feeds for use with an engine lathe. Setup and operation of engine lathe for the basic operations of turning, facing and drilling. Prerequisite: A grade of "C" or better in MACH 111 or concurrent enrollment in MACH 111. [GE]

BASIC VERTICAL MILLING PROCESSES I

MACH 113 Summer Fall Winter Spring 5 Credits

22 hours of lecture 66 hours of lab

Instruction and practical application using nomenclature and safety for the vertical mill. Setup indicators and edge finders. Operations to include squaring of a work piece, drilling and reaming holes in various materials. Prerequisite: A grade of "C" or better in MACH 111 or concurrent enrollment in MACH 111. [GE]

BASIC MACHINING TECHNOLOGY PROCESSES

MACH 114 Winter 10 Credits

55 hours of lecture 110 hours of lab

Individual projects. Concurrent enrollment in MACH 113 required. Prerequisite: MACH 112 or consent of Instructional Unit. [GE]

BASIC MACHINING TECHNOLOGY PROCESSES

MACH 115 Spring 5 Credits

55 hours of lecture

Safety, milling process, do-all saw, and surface grinder. Use of The Machinery's Handbook and trigonometry. Concurrent enrollment in MACH 116 required. Prerequisite: MACH 113 or consent of Instructional Unit. [GE]

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BASIC MACHINING TECHNOLOGY PROCESSES

MACH 116 Spring 10 Credits

55 hours of lecture 110 hours of lab

Individual projects. Concurrent enrollment in MACH 115 required. Prerequisite: MACH 114 or consent of Instructional Unit. [GE]

BASIC SURFACE GRINDER PROCESSES I

MACH 121 Summer Fall Winter Spring 5 Credits

22 hours of lecture 66 hours of lab

Instruction and practice to safely use the surface grinders. Instruction of nomenclature for surface grinders. The use and care of handtools for inspection and setup of the surface grinder. Identify and safely use grinding wheels. Setup workpiece and grind material parallel. Prerequisite: MACH 111. [GE]

BASIC ENGINE LATHE PROCESSES II

MACH 122 Summer Fall Winter Spring 5 Credits

22 hours of lecture 66 hours of lab

Instruction and practice to use engine lathe for turning material both concentric and straight, creating square shoulders, and facing a part. Drilling with the tailstock. Cutting external UNF and UNC threads. The use and care of taps. Prerequisite: MACH 111 and MACH 112. [GE]

BASIC VERTICAL MILLING PROCESSES II

MACH 123 Summer Fall Winter Spring 5 Credits

22 hours of lecture 66 hours of lab

Instruction and practical application using the vertical mill for drilling procedures, squaring of a workpiece, and reaming operations. Practice in machine setups to complete these operations. Prerequisite: MACH 111 and MACH 113. [GE]

BASIC SURFACE GRINDER PROCESSES II

MACH 131 Summer Fall Winter Spring 5 Credits

22 hours of lecture 66 hours of lab

Instruction and practical application using the surface grinder to grind a workpiece flat and parallel, setup and operation to dress various shapes on grinding wheels. Prerequisite: MACH 111 and MACH 121. [GE]

BASIC ENGINE LATHE PROCESSES III

MACH 132 Summer Fall Winter Spring 5 Credits

22 hours of lecture 66 hours of lab

Instruction and practical application using the engine lathe with four jaw chucks, cutting multiple start and acme threads. Use of formulas and different methods for cutting tapers. Prerequisite: MACH 111, MACH 112 and MACH 122. [GE]

BASIC VERTICAL MILLING PROCESSES III

MACH 133 Summer Fall Winter Spring 5 Credits

22 hours of lecture 66 hours of lab

Instruction and practical application using the vertical milling machine with an indexing head. Application of form cutting tools, keyway cutters, and face milling. Prerequisite: MACH 111, MACH 113 and MACH 123 [GE]

RELATED MACHINING TECHNOLOGY

MACH 134 Summer 4 Credits

22 hours of lecture 44 hours of lab

Safety, set-up, and operation of the lathe, drill, mill, bench work and related theory. [GE]

COOPERATIVE WORK EXPERIENCE

MACH 199 Summer Fall Winter Spring 1 – 5 Credits

165 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit. [GE]

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ADVANCED SURFACE GRINDER PROCESSES III

MACH 211 Summer Fall Winter Spring 5 Credits

22 hours of lecture 66 hours of lab

Instruction and practical application for the surface grinder using angle blocks and plates for grinding edges and vertical surfaces. Prerequisite: MACH 111, MACH 121, and MACH 131. [GE]

ADVANCED ENGINE LATHE PROCESSES IV

MACH 212 Summer Fall Winter Spring 5 Credits

22 hours of lecture 66 hours of lab

Instruction and practical application of advanced engine lathe processes. Cutting of long workpieces using steady rests and follow rests. Prerequisite: MACH 111, MACH 112, MACH 122 and MACH 132. [GE]

ADVANCED CNC MILLING SETUP AND OPERATION

MACH 213 Summer Fall Winter Spring 5 Credits

22 hours of lecture 66 hours of lab

Setup and operation of the Haas vertical mill. Creating and editing numerical control programs for Haas vertical mill. Prerequisite: MACH 111. [GE]

SURFACE GRINDER AND PROCESSES II

MACH 221 Fall Winter Spring 5 Credits

22 hours of lecture 66 hours of lab

Using the surface grinder to produce angles and shapes with sine vises, angle plates and fixtures. Prerequisite: MACH 111, 121, 131, and 211. [GE]

CNC LATHE SETUP AND OPERATION

MACH 222 Fall Winter Spring 5 Credits

66 hours of lab 22 hours of lecture

Instruction and practical application for the safe setup and operation of Okkuma CNC lathe. Produce and edit NC programs on the CNC lathe. Prerequisite: MACH 111. [GE]

CNC MILL MASTER CAM PROGRAMMING

MACH 223 Fall Winter Spring 5 Credits

22 hours of lecture 66 hours of lab

Use cam software (Mastercam) to produce CNC programs for Haas vertical mill using 2-D and 3-D geometry. Prerequisite: MACH 111 or consent of Instructional Unit. [GE]

ADVANCED MACHINING TECHNOLOGY PROCESSES

MACH 224 Winter 10 Credits

55 hours of lecture 110 hours of lab

Individual projects. Three to five industrial tours. CAM programming. Concurrent enrollment in MACH 223 required. Prerequisite: MACH 222 or consent of Instructional Unit. [GE]

ADVANCED MACHINING TECHNOLOGY PROCESSES

MACH 225 5 Credits Spring

55 hours of lecture

Use of The Machinery's handbooks. Set-ups and application of profile, planer, electrical discharge and others, grinding machines in industry. Metric conversions and application for present and future machining. Concurrent enrollment in MACH 226 required. Prerequisite: MACH 223 or consent of Instructional Unit. [GE]

ADVANCED MACHINING TECHNOLOGY PROCESSES

MACH 226 Spring 10 Credits

55 hours of lecture 110 hours of lab

Individual projects. Three to five industrial tours. Concurrent enrollment in MACH 225 required. Prerequisite: MACH 224 or consent of Instructional Unit. [GE]

ADVANCED EDM PROCESSES

MACH 231 Fall Winter Spring 5 Credits

22 hours of lecture 66 hours of lab

Instruction and practical application for setup and operation of the electrical discharge machine using overburn charts. Using manufacturer's charts to determine electrode material. Prerequisite: MACH 111. [GE]

ADVANCED CNC LATHE PROGRAMMING

MACH 232 Fall Winter Spring 5 Credits

22 hours of lecture 66 hours of lab

Advanced CAM programming using Mastercam to produce CNC programs for Okkuma CNC lathe. Prerequisite: MACH 111 and MACH 222. [GE]

ADVANCED MILLING 3D PROGRAMMING & MACHINING

MACH 233 Fall Winter Spring 5 Credits

22 hours of lecture 66 hours of lab

Advanced CAM programming for the vertical mill using Mastercam to produce CNC programs by using solids and surfaces. Prerequisite: MACH 111 and MACH 222. [GE]

ELEMENTARY METALLURGY

MACH 235 Summer Fall Winter Spring 2 Credits

22 hours of lecture

Introduction to physical metallurgy, oriented towards the machinist trade. Covers destructive and non-destructive testing, steel manufacturing and its classification, identification methods, alloy steel, cast and wrought iron, heat treating. Concurrent enrollment in MACH 236 required. Cannot receive credit for MTEC 235 and WELD 235 and MACH 235. [GE]

ELEMENTARY METALLURGY LAB

MACH 236 Summer Fall Winter Spring 2 Credits

44 hours of lab

Application of concepts and topics covered in MACH 235, including metallography, heat treatment, and testing of materials. Concurrent enrollment in MACH 235 required. Cannot receive credit for MTEC 236 and WELD 236 and MACH 236. [GE]

BASIC NUMERIC CONTROL

MACH 251 Fall Winter Spring 3 Credits

33 hours of lecture

Writing and testing programs for the HAAS computer numerical control mill. [GE]

CAM PROGRAMMING

MACH 252 Fall Winter Spring 4 Credits

33 hours of lecture 22 hours of lab

Experience in writing programs using the MasterCam or GeoPath programming systems. Programs will be written for various Mills and Lathes. [GE]

SELECTED TOPICS

MACH 280 1 – 5 Credits

55 hours of lecture

Selected topics in Machining as listed in the quarterly class schedule. Repeatable for credit. Prerequisite: Consent of Instructional Unit.

SPECIAL PROJECTS

MACH 290 Summer Fall Winter Spring 1 – 6 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

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Management

THE BUSINESS ENVIRONMENT

MGMT 100 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Overview of the business organization, including management, operations, marketing, finance and law. Topics include essential business concepts and the role of business in modern society; responding to the changing business environment, the unique challenges of small business, managing human and physical resources, and competing in a global economy. Credit not allowed for BUS& 101, BUS 101 and MGMT 100. [GE]

PRINCIPLES OF MANAGEMENT

MGMT 101 Fall Winter Spring 3 Credits

33 hours of lecture

Introduction to management theory, functions, and topics to include diversity, leading change, decision making, and team work. Focus on practical applications, useful to both new and experienced managers. [GE]

APPLIED MANAGEMENT SKILLS

MGMT 103 Fall 3 Credits

33 hours of lecture

Developing concepts and skills in employee motivation, communication, and supervisory leadership. Promoting effective relations and performance in the work group. Case discussions and role situations develop understanding of individual and group problems encountered by the supervisor. [GE]

MOTIVATION AND PERFORMANCE

MGMT 106 Winter 3 Credits

33 hours of lecture

Review of motivational factors of human relations used to enhance motivation and interpersonal communications; focus on the ways motivation impacts the success or failure of organizations. [GE]

SUPERVISORY COMMUNICATION I, WRITTEN

MGMT 107 Winter 3 Credits

33 hours of lecture

Review of writing mechanics covering grammar, punctuation, and sentence and paragraph structure. Students practice writing effective business letters, documentation, supervisory reports, office memoranda, and bulletins. [GE]

CREATIVE PROBLEM SOLVING

MGMT 110 Winter 3 Credits

33 hours of lecture

Review of the creative and analytical thinking necessary for effective problem-solving in the workplace. Concepts include left/right brain thinking, stages in the creative process, habits that hinder thinking and producing ideas, the role of criticism, and effective communication of solutions. [GE]

CONFLICT MANAGEMENT

MGMT 112 Fall Spring 2 Credits

22 hours of lecture

Study of the factors causing conflicts and ways to resolve them. Conflict with individuals and groups, conflict management styles, and win-win situations. [GE]

HUMANIZING THE WORKPLACE

MGMT 113 Fall Spring 1 Credit

11 hours of lecture

Study of the importance of laughter and humor in the workplace to build human connections, improve individual and corporate health, kindle creativity, and establish a positive work environment. [GE]

SUPERVISOR AS A TRAINER COACH

MGMT 120 3 Credits Spring

33 hours of lecture

Study of the supervisor's role in the training and professional of employees. Topics include identifying training needs, selecting the appropriate type of training, distinguishing between training and coaching situations, and supporting employees to improve performance. Activities include practical training and coaching techniques. [GE]

LEADERSHIP PRINCIPLES

MGMT 122 Fall 3 Credits

33 hours of lecture

Developing practical leadership skills to influence the organizational performance for managers and non-managers. Topics include leadership roles and styles; the communication process; team building and group interactions; and organizational politics, power, and influence. Applications include leading in business, not-for-profit organizations, clubs, and social organizations. [GE]

TEAM BUILDING AND GROUP BEHAVIOR

MGMT 125 Spring 3 Credits

33 hours of lecture

Methods for creating, developing, and nurturing work groups and teams in the workplace to achieve organizational objectives. Focus on the effective roles of the supervisor and team members. Topics include group behavior for problem-solving, group learning, conflict resolution, and team interactions and communications. [GE]

PROJECT MANAGEMENT

MGMT 126 3 Credits Winter Spring

33 hours of lecture

Introduction to current practices in successful project management and in creating a quality project plan. Case examples provide the opportunity for first-hand practice in developing the individual steps of a project cycle, using current software in project management. [GE]

HUMAN RESOURCES MANAGEMENT

MGMT 128 Fall Winter 3 Credits

33 hours of lecture

Developing an understanding of the functions and skills needed by supervisors concerning employment recruitment, selection and placement, staff planning and development, job descriptions and analysis, promotions, transfers, separations, wage and salary administration, and EEO requirements. [GE]

LEGAL ISSUES IN EMPLOYEE RELATIONS

MGMT 132 3 Credits Spring

33 hours of lecture

Study of human resource topics such as employment law, hiring, discrimination, employment-at-will, drug testing, health insurance, unemployment, worker's compensation, wages and hours; and civil rights. Focus on due process for both public and private employees, including labor relations and collective bargaining. [GE]

PRODUCTION AND OPERATIONS MANAGEMENT

MGMT 133 3 Credits

33 hours of lecture

Techniques for improving productivity and quality and reducing waste. Topics include measuring quality and productivity, process definition and control, problem-solving, continuous improvement, and personal productivity for the production and service environment. [GE]

COOPERATIVE WORK EXPERIENCE

MGMT 199 Summer Fall Winter Spring 1 – 5 Credits

165 hours of clinical

Up to 5 credits for supervised work training in an approved job. Completion of or concurrent enrollment in BTEC 147 or HDEV 195, 198, or 200 required. Prerequisite: Completion of one class with a "C" or better in Business, Economics, or Management. Written consent of Instructional Unit. [GE]

SELECTED TOPICS

MGMT 280 1 – 5 Credits

55 hours of lecture

Varying topics in supervisory management, as listed in the quarterly class schedule. May be repeated for credit. [GE]

SPECIAL PROJECTS

MGMT 290 Summer Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

Mathematics

PRE-ALGEBRA

MATH 030 Summer Fall Winter Spring 5 Credits

55 hours of lecture

An introduction to algebra, solving equations, the integers, fractions, decimals, ratios, proportions, percents, basic geometry, and measurement. Prerequisite: A grade of "C" or better in DVED 023 or recommending score on placement test.

MATHEMATICS FOR EARLY CHILDHOOD EDUCATORS

MATH 050 Spring 5 Credits

55 hours of lecture

Number and operation, algebra, geometry, data analysis, statistics, and probability, and measurement. For students planning to teach mathematics to 3- to 8-year-old children (Pre-kindergarten to Grade 3). Prerequisite: A grade of "C" or better in MATH 030 (Pre-Algebra) or recommending score on placement test.

FUNDAMENTALS OF BUSINESS MATHEMATICS

MATH 065 Fall Winter Spring 5 Credits

55 hours of lecture

Application of mathematics to common business situations. Emphasis is on practical applications and problem-solving skills for the business professional as well as the consumer and investor. Prerequisite: A grade of "C" or better in DVED 023 or recommending score on placement test or consent of Instructional Unit.

INTRODUCTION TO THE GRAPHING CALCULATOR

MATH 080 Fall Winter Spring 1 Credit

11 hours of lecture

Basic calculator functions, using memory keys, graphing and solving equations and inequalities, manipulating the graph viewing window, using the various calculator menus, operations on matrices, using programs. Prerequisite: A grade of "C" or better in MATH 030 or recommending score on placement test.

INDUSTRIAL MATHEMATICS

MATH 085 Fall Spring 5 Credits

55 hours of lecture

Mathematical calculations used in industry. Determining ratio and proportion, taper calculations, weights and measures, areas and volumes, circles, angles, triangles, percentages, and metric conversions. Prerequisite: A grade of "C" or better in DVED 023 or recommending score on placement test or consent of Instructional Unit.

ALGEBRA I

MATH 089 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Numeric and algebraic expressions, linear equations and inequalities, the coordinate plane, functions, lines. Prerequisite: A grade of "C" or better in MATH 030 or recommending score on placement test.

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ELEMENTARY ALGEBRA

MATH 090 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Numeric and algebraic expressions, linear equations and inequalities, the coordinate plane, functions, lines, systems of linear equations, integer exponents, polynomials. Designed for the student who is prepared to take algebra at an accelerated pace. Prerequisite: A grade of "C" or better in MATH 030 or recommending score on placement test.

ALGEBRA II

MATH 091 Summer Fall Winter Spring 5 Credits

55 hours of lecture

A continuation of MATH 089. Systems of linear equations, integer exponents, polynomials, factoring, rational expressions. Prerequisite: A grade of "C" or better in MATH 089 or MATH 090 or eligibility for MATH 095.

ALGEBRA III

MATH 093 Summer Fall Winter Spring 5 Credits

55 hours of lecture

A continuation of MATH 091. Radical expressions, rational exponents, quadratic equations, exponential and logarithmic functions. Prerequisite: A grade of "C" or better in MATH 091.

INTERMEDIATE ALGEBRA

MATH 095 Summer Fall Winter Spring 5 Credits

55 hours of lecture

A continuation of MATH 090. Factoring, rational expressions, radical expressions, rational exponents, quadratic equations, exponential and logarithmic functions. Designed for the student who is prepared to take algebra at an accelerated pace. Prerequisite: A grade of "C" or better in MATH 090 or recommending score on placement test.

MAPLE SOFTWARE

MATH 096 Fall Winter Spring 1 Credit

11 hours of lecture

Interactive exploration of the features and applications of Maple, an algebraic and graphing software which will be used in learning several courses in the Mathematics Division, from college algebra through differential equations. Does not fulfill computational requirement. Prerequisite: A grade of "C" or better in MATH 093 or 095, or recommending score on placement test.

TECHNICAL MATHEMATICS I

MATH 098 Fall 3 Credits

33 hours of lecture

Algebra review, engineering calculator, graphing, geometry, units, significant digits, and scientific notation. Designed for majors in Electronics, Manufacturing Technologies, and Data Networking and Telecommunications Technologies. Prerequisite: A grade of "C" or better in MATH 90 or MATH 091, recommending score on placement test or consent of Instructional Unit.

TECHNICAL MATHEMATICS II

MATH 099 Winter 3 Credits

33 hours of lecture

Trigonometry, logarithms, and complex numbers. Hand calculator with trigonometric capability required. Designed for majors in Electronics, Manufacturing Technologies and Data Networks and Telecommunication Technologies. NOTE: MATH 099 is not an acceptable prerequisite for any mathematics and manufacturing systems maintenance Tech class at Clark College. Prerequisite: MATH 098 or recommending score on placement test or consent of Instructional Unit.

COLLEGE TRIGONOMETRY

MATH 103 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Trigonometric ratios, right angle trigonometry, law of sines, law of cosines, radian measure, trigonometric identities, inverse trigonometric functions, trigonometric equations, graphs of trigonometric functions, polar coordinates, and

two-dimensional vectors. Prerequisite: A grade of "C" or better in MATH 093, or 095, or recommending score on placement test. [Q, SE]

FINITE MATHEMATICS

MATH 105 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Set theory, graphs, linear programming, simplex method, matrices and linear systems, probability, and combinatorics. For students of business, social science or life science. Prerequisite: A grade of "C" or better in MATH 093 or 095, or recommending score on placement test. [Q, SE]

MATH IN SOCIETY

MATH& 107 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Philosophy of mathematics and concepts of numerical relationships. Mathematical systems, logic, set theory, inductive and deductive reasoning, scientific attitudes, elementary properties of mathematics. Geometry and history of mathematics will be covered as time allows. For students who do not plan to take more mathematics. One field trip may be required. Prerequisite: A grade of "C" or better in MATH 093 or 095, or recommending score on placement test. [Q, SE]

COLLEGE ALGEBRA

MATH 111 Summer Fall Winter Spring 5 Credits

55 hours of lecture

The functional approach including algebraic, logarithmic, and exponential functions. Inequalities, theory and systems of equations, matrices, conic sections, sequences and series. A challenging technical course primarily intended for those majoring in Mathematics, Physical Science or Engineering. It is a preparatory class for the four-term Calculus series. Prerequisite: A grade of "C" or better in MATH 093 or 095, or recommending score on placement test. [Q, SE]

MATHEMATICS FOR ELEMENTARY TEACHERS

MATH 120 Fall Winter 5 Credits

55 hours of lecture

Sets, inductive and deductive logic, subsystems of the real number system, various numeration systems, and elementary number theory. For persons planning to become elementary teachers. Prerequisite: A grade of "C" or better in MATH 093 or 095, or recommending score on placement test. [Q, SE]

MATHEMATICS FOR ELEMENTARY TEACHERS

MATH 121 Winter Spring 5 Credits

55 hours of lecture

Continuation of MATH 120. The real number system and other mathematical systems, informal Euclidean geometry, measurement, metric units, area and volume, and coordinate geometry. Students are strongly encouraged to arrange a concurrent internship in an elementary school classroom. Prerequisite: A grade of "C" or better in MATH 120. [Q, SE]

MATH FOR ELEMENTARY TEACHERS

MATH 122 Fall Winter 5 Credits

55 hours of lecture

The first of a three-quarter sequence of courses designed for prospective elementary school teachers. Focus on problem solving, set theory, numeration systems, whole number arithmetic, and fractions. Prerequisite: A grade of "C" or better in MATH 093 or MATH 095, or recommending score on placement test.

MATH FOR ELEMENTARY TEACHERS

MATH 123 Fall Winter 5 Credits

55 hours of lecture

The second of a three-quarter sequence of courses designed for prospective elementary school teachers. Focus on geometric shapes, measurement, triangle congruence and similarity, coordinate geometry, transformations,

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trigonometry and geometric problem solving. May be taken concurrently with MATH 124, the third course in the sequence. Prerequisite: A grade of "C" or better in MATH 122.

MATH FOR ELEMENTARY TEACHERS

MATH 124 Winter Spring 5 Credits

55 hours of lecture

The third of a three-quarter sequence of courses designed for prospective elementary school teachers. Focus on integers, decimals, number theory; elementary statistics, combinatorics and probability; functions and their graphs. Study of data analysis and probability including problem solving techniques and concepts in algebra. May be taken concurrently with MATH 123, the second course in the sequence. Prerequisite: A grade of "C" or better in MATH 122.

MODELING ENERGY DYNAMICS IN EVERYDAY LIFE

MATH 135 Spring 3 Credits

33 hours of lecture

Introduction to models of energy dynamics. Students will develop and interpret models of annual energy use and cost using real data related to home lighting, home heating and food consumption. Models will be used to analyze cost/benefit of alternatives. Credit not allowed for both MATH 135 and ENSC 135. Completion of BIOL& 101 recommended. Prerequisite: A grade of "C" or better in MATH 093 or 095, or recommending score on placement test. [Q, NS, SE]

CALCULUS FOR LIFE SCIENCES

MATH 140 6 Credits

66 hours of lecture

Survey of differentiation and integration in one and multivariable contexts, with applications to problems in Biology and Environmental Science. Prerequisite: A grade of "C" or better in MATH 103 or 111, or recommending score on placement test. [Q, SE]

BUSINESS CALCULUS

MATH& 148 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Introductory calculus with applications for business, life sciences, and social sciences. Differential, integral, and elementary multivariate calculus. Credit allowed for only one of MATH 140, MATH 106 and MATH& 148. Prerequisite: A grade of "C" or better in MATH 105 or 111 or recommending score on placement test. [Q, SE]

CALCULUS I

MATH& 151 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Plane analytic geometry, functions, limits, continuity, the derivative, the integral, curve sketching, applications of the derivative. Credit not allowed for both MATH 113 and MATH& 151. Prerequisite: A grade of "C" or better in MATH 103 and 111, or recommending score on placement test. [Q,SE]

CALCULUS II

MATH& 152 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Continuation of MATH& 151. Trigonometric functions, exponents, logarithms, hyperbolic functions, methods of integration, and applications of the integral and indeterminate forms. Credit not allowed for both MATH 211 and MATH& 152. Prerequisite: A grade of "C" or better in MATH& 151 (MATH 113). [Q, SE]

CALCULUS III

MATH& 153 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Continuation of MATH& 152. Parametric equations, polar coordinates, conic sections, infinite series, and vectors in two and three dimensions. Credit not allowed for both MATH 212 and MATH& 153. Prerequisite: A grade of "C" or better in MATH& 152 (or MATH 211). [Q, SE]

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COOPERATIVE WORK EXPERIENCE

MATH 199 1 – 5 Credits

165 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit. [GE]

DESCRIPTIVE STATISTICS

MATH 203 Summer Fall Winter Spring 3 Credits

33 hours of lecture

Descriptive methods, probability, binomial and normal probability distributions are included among other statistical topics with applications to fields of science, engineering, business, social science, and education. Credit allowed for only one of MATH 203 or BUS 203. Prerequisite: A grade of "C" or better in MATH 093 or 095, or recommending score on placement test. [Q, SE]

INFERENTIAL STATISTICS

MATH 204 Summer Fall Winter Spring 3 Credits

33 hours of lecture

Estimation of parameters, tests of hypotheses, regression analysis, nonparametric statistics and analysis of variance are included in this continuation of MATH 203. Applications in science, engineering, business, social science and education. Credit allowed for only one of MATH 204 or BUS 204. Prerequisite: A grade of "C" or better in MATH 203 or BUS 203. [Q, SE]

DISCRETE MATHEMATICS

MATH 205 Winter 5 Credits

55 hours of lecture

Study of finite systems. Topics chosen from set theory, logic, relations, combinatorics, number systems, algorithms, graph theory, and automata. Credit not allowed for both MATH 205 and MATH 206. Prerequisite: A grade of "C" or better in MATH 111 or recommending score on placement test. [Q, SE]

LINEAR ALGEBRA

MATH 215 Fall 5 Credits

55 hours of lecture

Elementary linear algebra, geometrical vectors, matrices, determinants, linear equations, vector spaces, and linear transformations. Credit not allowed for both MATH 215 and MATH 216. Prerequisite: A grade of "C" or better in MATH& 152 (MATH 211). [Q, SE]

DIFFERENTIAL EQUATIONS

MATH 221 Winter Spring 5 Credits

55 hours of lecture

Elementary theory and applications of ordinary differential equations. Linear equations, linear systems, Laplace transforms, boundary value problems, series and iterative methods. Credit not allowed for both MATH 221 and MATH 241. Prerequisite: Concurrent enrollment in MATH& 254 (MATH 213) or a grade of "C" or better in MATH& 254 (MATH 213). [Q, SE]

CALCULUS IV

MATH& 254 Fall Winter Spring 5 Credits

55 hours of lecture

Continuation of MATH& 153. Solid analytic geometry, partial derivatives, multiple integrals, line and surface integrals. Prerequisite: A grade of "C" or better in MATH& 153 (or MATH 212). [Q, SE]

SELECTED TOPICS

MATH 280 1 – 5 Credits

55 hours of lecture

Selected topics in mathematics. Topics vary and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit. Individual topics are listed in the quarterly class schedules. [SE]

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SPECIAL PROJECTS

MATH 290 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

FUNDAMENTALS OF BUSINESS MATHEMATICS

MATHB 065 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Application of mathematics to common business situations. Emphasis is on practical applications and problem-solving skills for the business professional as well as the consumer and investor. Prerequisite: A grade of "C" or better in DVED 023 or recommending score on the placement test or consent of Instructional Unit.

INDUSTRIAL MATHEMATICS

MATHI 085 Fall Winter Spring 5 Credits

55 hours of lecture

Mathematical calculations used in industry. Determining compression ratio, gear ratio, taper calculations, thread dimensions, weights and measures, and metric conversions. Credit allowed for only one of MATH 065 and 085. Prerequisite: A grade of "C" or better in DVED 023 or recommending score on placement test or consent of Instructional Unit.

TECHNICAL MATHEMATICS I

MATHI 098 Fall 3 Credits

33 hours of lecture

Algebra review, engineering calculator, graphing, geometry, units, significant digits, and scientific notation. Designed for majors in Electronics, Manufacturing Technologies, and Data Networking and Telecommunications Technologies. Prerequisite: Grade of "C" or better in MATH 090, recommending score on placement test or consent of Instructional Unit.

TECHNICAL MATHEMATICS II

MATHI 099 Winter 3 Credits

33 hours of lecture

Trigonometry, Logarithms, and complex numbers. Hand calculator with trigonometric capability required. Designed for majors in Electronics, Manufacturing Technologies and Data Networks and Telecommunication Technologies. NOTE: MATH 099 is not an acceptable prerequisite for any mathematics and manufacturing systems maintenance Tech class at Clark College. Prerequisite: MATH 098 or recommending score on College numerical skills placement test or consent of Instructional Unit.

Mechatronics

BASIC MEASUREMENT TOOLS

MTX 103 Fall 2 Credits

11 hours of lecture 22 hours of lab

Fundamentals of measurement tools. Topics include basic measurement, S.I. and U.S. customary measurement, precision measurement tools and dimensional gauging. Prerequisite: A grade of "C" or better in ELEC 101, 102, and 121; or concurrent enrollment in ELEC 101, 102, and 121; or consent of Instructional Unit.

BASIC HYDRAULICS

MTX 105 Fall 2 Credits

11 hours of lecture 22 hours of lab

Fundamentals of hydraulics. Topics include hydraulic power systems, hydraulic circuits, principles of hydraulic pressure and flow and various types of hydraulic valves. Prerequisite: A grade of "C" or better in ELEC 101, 102, and 121; or concurrent enrollment in ELEC 101, 102, and 121; or consent of Instructional Unit.

BASIC PNEUMATICS

MTX 107 Fall 2 Credits

11 hours of lecture 22 hours of lab

Fundamentals of pneumatics. Topics include pneumatic power systems, basic pneumatic circuits principles of pneumatic pressure and flow and pneumatic speed control. Prerequisite: A grade of "C" or better in ELEC 101, 102, and 121; or concurrent enrollment in ELEC 101, 102, and 121; or consent of Instructional Unit.

ELECTRIC MOTOR CONTROL 1

MTX 110 Fall 4 Credits

22 hours of lecture 44 hours of lab

Fundamentals of electric motor control. Topics include electrical safety, control transformers, overload protection, ladder logic, control relays, electronic sensors, and other topics related to the fundamental operation of electronic motor control. Prerequisite: A grade of "C" or better in ELEC 101, 102, and 121; or concurrent enrollment in ELEC 101, 102, and 121; or consent of Instructional Unit.

ELECTRICAL POWER DISTRIBUTION

MTX 113 Fall 2 Credits

11 hours of lecture 22 hours of lab

Fundamentals of electrical power distribution as it relates to mechatronics. Topics include an introduction to race-ways, conduit bending, rigid conduit, flexible conduit, conductors, disconnects, overcurrent protection, conduit sizing, and wire pulling techniques. Prerequisite: A grade of "C" or better in ELEC 101, 102, and 121; or concurrent enrollment in ELEC 101, 102, and 121; or consent of Instructional Unit.

MECHATRONICS 1

MTX 117 Fall 2 Credits

11 hours of lecture 22 hours of lab

Fundamentals of mechatronics. Topics include automation operations, control systems, mechatronic safety, component adjustments, manual operation, pneumatic and electric pick and place. Prerequisite: A grade of "C" or better in ELEC 101, 102, and 121; or concurrent enrollment in ELEC 101, 102, and 121; or consent of Instructional Unit.

MECHANIC DRIVES 1

MTX 120 Winter 3 Credits

22 hours of lecture 44 hours of lab

Introduction to mechanical drive systems. Topics include mechanical power transmission safety, machine installation, motor mounting, shaft speed measurement, torque and power measurement, v-belt, chain and spur gear drives and other topics as well. Advantages of each system type will be discussed and compared. Prerequisite: A grade of "C" or better in ELEC 101, 102, and 121; or concurrent enrollment in ELEC 101, 102, and 121; or consent of Instructional Unit.

PICK AND PLACE ROBOT

MTX 123 Winter 2 Credits

11 hours of lecture 22 hours of lab

Fundamentals of the pick and place robot using the SMC system. Topics include pneumatic robotic systems, preventive maintenance and troubleshooting as well as pneumatic robot control. Prerequisite: A grade of "C" or better in ELEC 101, 102, and 121; or concurrent enrollment in ELEC 101, 102, and 121; or consent of Instructional Unit.

SERVO ROBOT

MTX 125 Winter 3 Credits

22 hours of lecture 22 hours of lab

Introduction to the articulated arm servo robot using the SMC system. Topics include basic robot operation, teach point programming, PC software programming, application development, flexible manufacturing cells, quality control and production control. Prerequisite: A grade of "C" or better in ELEC 101, 102, and 121; or concurrent enrollment in ELEC 101, 102, and 121; or consent of Instructional Unit.

PIPING

MTX 127 Winter 2 Credits

11 hours of lecture 22 hours of lab

Fundamentals of piping. Topics include metal piping systems, metal piping installation, metal tubing systems and hoses. Prerequisite: A grade of "C" or better in ELEC 101, 102, and 121; or concurrent enrollment in ELEC 101, 102, and 121; or consent of Instructional Unit.

PROGRAMMABLE LOGIC CONTROLLERS 1

MTX 130 Winter 4 Credits

22 hours of lecture 44 hours of lab

Introduction to programmable logic controllers. Topics include basic programming of PLCs, PLC motor control methods, discrete I/O interfacing, event sequencing, timers, counters and program control instructions. Prerequisite: A grade of "C" or better in ELEC 101, 102, and 121; or concurrent enrollment in ELEC 101, 102, and 121; or consent of instructional Unit.

MECHANICAL DRIVES 2

MTX 150 Spring 2 Credits

11 hours of lecture 22 hours of lab

Intermediate concepts of mechanical drive systems. Topics include heavy-duty v-belts, v-belt selection and maintenance, synchronous belt drives, lubrication concepts, precision shaft alignment techniques and heavy duty chain drives. Advantages of each system type will be discussed and compared. Prerequisite: A grade of "C" or better in MTX 120 or consent of Instructional Unit.

DC DRIVES

MTX 153 Spring 4 Credits

22 hours of lecture 44 hours of lab

Introduction to DC drives. Topics include DC motion control, SCR control, DC spindle drives, DC axis drives and DC pulse width modulation drives. Prerequisite: A grade of "C" or better in ELEC 101, 102, and 121; or concurrent enrollment in ELEC 101, 102, and 121; or consent of Instructional Unit.

AC DRIVES

MTX 155 Spring 4 Credits

22 hours of lecture 44 hours of lab

Introduction to AC drives: Topics include AC motion control, AC Vector drives, AC axis drives, general purpose AC drives and AC drive troubleshooting. Prerequisite: A grade of "C" or better in ELEC 101, 102, and 121; or concurrent enrollment in ELEC 101, 102, and 121; or consent of Instructional Unit.

ELECTRIC MOTOR CONTROL 2

MTX 165 Spring 4 Credits

22 hours of lecture 44 hours of lab

Introduction to electric motor control troubleshooting techniques. Techniques include control component, motor starter and systems troubleshooting methods. Related topics include various motor braking methods and power distribution. Prerequisite: A grade of "C" or better in MTX 110 or consent of Instructional Unit.

CO-OP WORK EXPERIENCE

MTX 199 1 – 5 Credits

165 hours of clinical

Work-based learning experience that enables students to apply specialized occupational theory, skills and concepts. Specific objectives are developed by the College and the employer. Prerequisite: Completion of, or concurrent enrollment in HDEV 105, 198 or 200 required. Consent of Instructional Unit.

FLOW PROCESS CONTROL

MTX 205 Fall 5 Credits

33 hours of lecture 44 hours of lab

Introduction to level/flow process control using the SMC system. Topics include process control concepts, safety, sight gauges, instrument tags, piping and instrumentation diagrams, loop controllers, final control elements, level

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management, liquid level control, methods of automatic control as well as other concepts. Prerequisite: A grade of "C" or better in ELEC 101, 102, and 121; or concurrent enrollment in ELEC 101, 102, and 121; or consent of Instructional Unit.

THERMAL PROCESS CONTROL

MTX 207 Winter 5 Credits

33 hours of lecture 44 hours of lab

Introduction to thermal process control using the SMC system. Topics include process control concepts, safety, instrument tag fundamental, piping and instrumentation diagrams, thermal energy, basic temperature control elements, final control elements, temperature sensors, and temperature transmitters. Prerequisite: A grade of "C" or better in ELEC 101, 102, and 121; or concurrent enrollment in ELEC 101, 102, and 121; or consent of Instructional Unit.

ELECTRO-FLUID POWER

MTX 210 Fall 4 Credits

22 hours of lecture 44 hours of lab

Fundamentals of electro-fluid power. Topics include electrical control systems, basic control devices, power devices, control relays, sequencing, timer and pressure control and circuit applications. Prerequisite: A grade of "C" or better in ELEC 101, 102, and 121; or concurrent enrollment in ELEC 101, 102, and 121; or consent of Instructional Unit.

MECHATRONICS 2

MTX 215 Winter 3 Credits

22 hours of lecture 22 hours of lab

Intermediate concepts of mechatronics. Topics include robotic pick and place assembly, torquing/assembly, parts storage and multiple station control. Prerequisite: A grade of "C" or better in MTX 117 or consent of Instructional Unit.

MECHATRONICS 3

MTX 217 Spring 5 Credits

33 hours of lecture 44 hours of lab

Advanced concepts of manufacturing stations of the SMC system as it applies to mechatronics. Topics include flexible materials handling, robot workstations, inventory control, serial robot communications, PLC communications, barcode pallet tracking, manufacturing execution systems, manufacturing management and simulation, ethernet operation and applications. Prerequisite: A grade of "C" or better in MTX 215 or consent of Instructional Unit.

WORKPLACE ORGANIZATION AND PRACTICES

MTX 220 Fall 2 Credits

11 hours of lecture 22 hours of lab

Introduction to the enterprise system: topics include technology sectors, team concepts, product design, business presentation and business presentation software. Prerequisite: A grade of "C" or better in ELEC 101, 102, and 121; or concurrent enrollment in ELEC 101, 102, and 121; or consent of Instructional Unit.

WORK TEAMS AND PRODUCT DESIGN

MTX 223 Fall 3 Credits

22 hours of lecture 22 hours of lab

Intermediate concepts of the enterprise system. Topics include team development, team problem solving, product design analysis and engineering impacts. Prerequisite: A grade of "C" or better in ELEC 101, 102, and 121; or concurrent enrollment in ELEC 101, 102, and 121; or consent of Instructional Unit.

SPEED CONTROL SYSTEMS

MTX 225 Winter 2 Credits

11 hours of lecture 22 hours of lab

Introduction to speed control systems. Topics include variable frequency AC drives, VFD speed and torque, VFD acceleration, deceleration, braking, VFD fault diagnostics and troubleshooting as well as SCR motor control. Prerequisite: A grade of "C" or better in ELEC 101, 102, and 121; or concurrent enrollment in ELEC 101, 102, and 121; or consent of Instructional Unit.

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MECHANICAL DRIVES 3

MTX 227 Spring 4 Credits

22 hours of lecture 44 hours of lab

Introduction to various bearing types as used in mechanical drive systems as well as advanced gear drives. Topics include plain bearings, ball bearings, roller bearings and anti-friction bearings, as well as gaskets and seals and advanced gear drives. Prerequisite: A grade of "C" or better in MTX 150 or consent of Instructional Unit.

LASER ALIGNMENT

MTX 230 Fall 2 Credits

11 hours of lecture 22 hours of lab

Introduction to the concept and proper practices of laser alignment. Topics include laser shaft alignment, including rough and precision alignment, soft foot correction and analysis. Prerequisite: A grade of "C" or better in ELEC 101, 102, and 121; or concurrent enrollment in ELEC 101, 102, and 121; or consent of Instructional Unit.

ADVANCED PROGRAMMABLE LOGIC CONTROLLERS

MTX 250 Winter 4 Credits

22 hours of lecture 44 hours of lab

Intermediate concepts of Programmable Logic Controls. Topics include analog input and output modules, analog scaling, network concepts, an introduction to Panelview and remote I/O concepts. Prerequisite: A grade of "C" or better in MTX 130, or equivalent, or consent of Instructional Unit.

ADVANCED HYDRAULICS

MTX 255 Spring 3 Credits

11 hours of lecture 44 hours of lab

Advanced concepts of hydraulics. Topics include hydraulic directional control valves, hydraulic cylinder applications, relief valves, check valves and accumulators. Prerequisite: A grade of "C" or better in MTX 105 or consent of Instructional Unit.

ADVANCED PNEUMATICS AND VACUUM

MTX 260 Spring 6 Credits

33 hours of lecture 66 hours of lab

Advanced concepts of pneumatics and vacuum concepts as well as troubleshooting as they apply to industry standards using the SMC training system. Topics include moving loads pneumatically, vacuum systems, air compressors, air preparation troubleshooting, troubleshooting pneumatic cylinders, motor and rotary actuator troubleshooting, vacuum system troubleshooting and other topics as well. Prerequisite: A grade of "C" or better in MTX 107, equivalent, or consent of Instructional Unit.

CAPSTONE

MTX 270 Spring 3 Credits

66 hours of lab

Integration of Mechatronics course concepts and skills. Activities include five weeks of lab time for a student team to create a manufacturing scenario using the SMC automated manufacturing equipment. Prerequisite: Consent of Instructional Unit.

PROJECT MANAGEMENT AND LEAN MANUFACTURING

MTX 285 Spring 2 Credits

11 hours of lecture 22 hours of lab

Introduction to project management within the enterprise system. Various topics include project management, lean manufacturing and industrial engineering systems. Prerequisite: A grade of "C" or better in ELEC 101, 102, and 121; or concurrent enrollment in ELEC 101, 102, and 121; or consent of Instructional Unit.

SPECIAL PROJECTS

MTX 290 1 – 5 Credits

Opportunity to plan, organize, and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

ORGANIZATIONAL ENTREPRENEURSHIP

MTX 295 Spring 3 Credits

22 hours of lecture 22 hours of lab

Introduction to economics and marketing techniques applicable to the business enterprise. Topics include enterprise economics, marketing basics and entrepreneurship. Prerequisite: A grade of "C" or better in ELEC 101, 102, 121; or concurrent enrollment in ELEC 101, 102, and 121; or consent of Instructional Unit.

Medical Radiography

RADIOGRAPHIC SKILL ENHANCEMENT LAB I

MRAD 011 Summer Fall Winter Spring

1 Credit

22 hours of lab

Supervised lab experience for skill enhancement in radiographic positioning, evaluation of radiographic procedures, technique, and equipment for the first year medical radiography student. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

RADIOGRAPHIC SKILL ENHANCEMENT LAB II

MRAD 012 Summer Fall Winter Spring

1 - 5 Credits

88 hours of lab

Supervised lab experience for skill enhancement in radiographic positioning, evaluation of radiographic procedures, technique, and equipment for the second year medical radiography student. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

INTRODUCTION TO DIAGNOSTIC IMAGING

MRAD 050 Winter 3 Credits

33 hours of lecture

Introduction to basic aspects of the Diagnostic Imaging professions including work environment and expectations concerning dress, hygiene, attitude and behavior. CPR Training and an introduction to on-line course instruction are provided. Clinical site visitation required. This course is required for admission into the Medical Radiography program. Prerequisite: Completion of or concurrent enrollment in BIOL& 251, 252, or 252 (or BIOL 231, 232 or 233) or permission of Instructional Unit.

INTRODUCTION TO RADIOLOGIC TECHNOLOGY

MRAD 101 Fall Spring 3 Credits

33 hours of lecture

An orientation to the radiologic technology profession, imaging equipment, radiation safety, patient care and radiographic examinations, professional development, career advancement, and professional ethics and associations. Prerequisite: Completion of, or concurrent enrollment in BIOL& 251, 252, or 253 (BIOL 231, 232, or 233).

INTRODUCTION TO PATIENT CARE

MRAD 102 Winter 5 Credits

44 hours of lecture 22 hours of lab

Patient care aspects involved in being a Radiologic Technologist. Topics include: patient interactions, history taking, transfer techniques, immobilization, vital signs and oxygen, infection control, aseptic and non-aseptic techniques. The lecture for this course, quizzes, and other materials will be online and accessed through the course webpage. The class will be divided into two on-campus lab periods. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

IMAGE PROCESSING

MRAD 103 Winter 1 Credit

11 hours of lecture

Introduction to radiographic image processing using both traditional film and digital images. Topics for discussion

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include darkroom chemistry, equipment, and procedures and computer hardware and software in the radiology lab. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

RADIATION SAFETY AND RADIOBIOLOGY

MRAD 104 Winter 2 Credits

22 hours of lecture

Introduction to proper procedures for working safely in the radiologic environment. Topics include: communication, radiation measurement, survey devices, conversion from traditional to systems international units, patient and radiographer protection, monitoring devices, safe operation of equipment, beam limitation, shielding, barriers, and fluoroscopic and mobile procedures. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of Instructional Unit.

RADIATION PHYSICS I

MRAD 108 Spring 3 Credits

22 hours of lecture 22 hours of lab

Focus on the fundamental principles of physics that underlie the use of radiation in diagnostic imaging. Using simplified math, and building on the concepts learned in Radiation Safety, develop a basic understanding of the production and control of X-radiation. Topics include: structure of atom, electromagnetic radiation, electrodynamics, electromagnetism, x-ray tube, x-ray production and interactions with matter. Hybrid course structure: some instruction will occur in the traditional classroom and some instruction will occur via the course website. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

RADIATION PHYSICS II

MRAD 109 Summer 4 Credits

33 hours of lecture 22 hours of lab

Continuation of MRAD 108. The geometry of image formation and the radiographic qualities of density, contrast, detail and distortion. Topics include: radiographic equipment, controlling factors of density, contrast, detail and distortion, beam limiting devices and their impact on the image, grids, image receptors (analog and digital) and fundamentals of digital imaging. Includes heavy emphasis on solving problems involving radiograpic qualities. This course will be structured as a hybrid course, with some instruction in the traditional classroom and some via the course website. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

CLINICAL EXPERIENCE I

MRAD 121 Spring 5 Credits

165 hours of clinical

First in a series of seven competency based clinical courses. Students orient to an assigned clinical education center and by instruction, observation, and experience, acquire the necessary skills to successfully image patients utilizing X-ray energy. Students will learn how to use the computer and PACS systems. Concurrent enrollment required in MRAD 108, 142, and 151. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

CLINICAL EXPERIENCE II

MRAD 122 Summer 8 Credits

264 hours of clinical

Second in a series of seven competency-based clinical experience courses. Students orient to an assigned clinical site and by instruction, observation, and experience, acquire the necessary skills to successfully image patients utilizing x-ray energy. Students will be assessed for maintenance of competency from previous clinical evaluations and experiences. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

CLINICAL EXPERIENCE III

MRAD 123 Fall 8 Credits

264 hours of clinical

Third in a series of seven competency-based experience courses. Students orient to an assigned clinical site and by instruction, observation, and experience, acquire the necessary skills to successfully image patients utilizing x-ray energy. Students will be assessed for maintenance of competency from previous clinical evaluations and experiences. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

RADIOGRAPHIC POSITIONING I

MRAD 141 Winter 5 Credits

44 hours of lecture 22 hours of lab

Introduction to basic radiographic positioning principles, terminology, pathology, and anatomy for radiographic purposes. Lecture discussion, demonstration and lab experiences will be used to present information on positioning and anatomy of the chest, abdomen and upper extremities. Projections studied will include cross-table images for trauma exams. Radiographic compliance, ICD coding, and ABN will be discussed. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

RADIOGRAPHIC POSITIONING II

MRAD 142 5 Credits

44 hours of lecture 22 hours of lab

Second in a five-course series that focuses on radiographic positioning principles, terminology, pathology, and anatomy for radiographic purposes. Lecture discussion, demonstration and lab experiences will be used to present information on positioning and anatomy of the shoulder, pelvic girdle, and lower limbs. Projections studied will include cross-table images for trauma exams. Radiographic compliance, ICD coding, and ABN will be discussed. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

RADIOGRAPHIC POSITIONING III

MRAD 143 Summer 5 Credits

44 hours of lecture 22 hours of lab

Third in a five-course series that focuses on radiographic positioning principles, terminology, pathology, and anatomy for radiographic purposes. Lecture discussion, demonstration and lab experiences will be used to present information on positioning and anatomy of the bony thorax, vertebral column, and sacrum and coccyx. Projections studied will include information on performing cross-table images for trauma exams. Concurrent enrollment in MRAD 143L. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

IMAGE EVALUATION I

MRAD 151 Spring 2 Credits

22 hours of lecture

First of a four-course series of radiographic image critique involving images of the chest, abdomen, and upper extremities. Emphasis on the evaluation and critique of radiographic anatomy, exposure factors, positioning, and pathology. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

IMAGE EVALUATION II

MRAD 152 Summer 1 Credit

11 hours of lecture

Second in a four-course series of radiographic film critique involving images of the shoulder girdle, lower extremities, and pelvic girdle. Emphasis on the evaluation of radiographic anatomy, exposure factors, positioning, and pathology. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

IMAGE EVALUATION III

MRAD 153 Fall 1 Credit

11 hours of lecture

Third of a four-course series of radiographic film critique involving images of the bony thorax, vertebral column, and sacrum and coccyx. Emphasis on the evaluation of radiographic anatomy, exposure factors, positioning, and pathology. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

IMAGE EVALUATION IV

MRAD 154 Winter 1 Credit

11 hours of lecture

Fourth of a four-course series of radiographic film critique involving images of the cranium, facial bones, and paranasal sinuses. Emphasis on the evaluation of radiographic anatomy, exposure factors, positioning, and pathology. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

PHARMACOLOGY AND IV THERAPY

MRAD 214 Fall 3 Credits

22 hours of lecture 22 hours of lab

Introduction to the pharmacological principles and practices in patient care for the medical imaging professional including administration of diagnostic contrast agents and/or intravenous medications; includes competency in venipuncture practice. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

RADIOGRAPHIC PATHOLOGY

MRAD 216 Winter 3 Credits

33 hours of lecture

Basic terms and manifestations of pathological conditions, trauma, classifications of diseases, genetics, and the healing process. Imaging procedures and radiographic appearance as well as interventional techniques appropriate for diseases common to each body system. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

CLINICAL EXPERIENCE IV

MRAD 224 Winter 8 Credits

264 hours of clinical

Fourth in a series of seven competency-based clinical experience courses. Students orient to an assigned clinical education center and by instruction, observation, and experience, acquire the necessary skills to successfully image patients utilizing x-ray energy. Students will be assessed for maintenance of competency from previous clinical evaluations and experience. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

CLINICAL EXPERIENCE V

MRAD 225 Spring 8 Credits

264 hours of clinical

Fifth in a series of seven competency-based clinical experience courses. Students orient to an assigned clinical education center and by instruction, observation, and experience, acquire the necessary skills to successfully image patients utilizing x-ray energy. Students will be assessed for maintenance of competency from previous clinical evaluations and experiences. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

CLINICAL EXPERIENCE VI

MRAD 226 Summer 12 Credits

363 hours of clinical

Sixth in a series of seven competency-based clinical experience courses. Students orient to an assigned clinical site and by instruction, observation, and experience, acquire the necessary skills to successfully image patients utilizing x-ray energy. Students will be assessed for maintenance of competency form previous clinical evaluations and expe-

riences. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

CLINICAL EXPERIENCE VII

MRAD 227 Fall 12 Credits

363 hours of clinical

Seventh in a series of seven competency-based clinical experience courses. Students orient to an assigned clinical site and by instruction, observation, and experience, acquire the necessary skills to successfully image patients utilizing x-ray energy. Students will be assessed for maintenance of competency from previous clinical evaluations and experiences. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

RADIOGRAPHIC POSITIONING IV

MRAD 244 3 Credits

22 hours of lecture 22 hours of lab

Fourth in a five-course series that focuses on radiography positioning principles, terminology, pathology, and anatomy for radiographic purposes. Lecture discussion, demonstration and lab experiences will be used to present information on positioning and anatomy of conventional tomography, upper gastrointestinal system, lower gastrointestinal system, gallbladder and biliary ducts, urinary system, and surgical radiography. Projections studied will include cross-table images for trauma exams. Radiographic compliance, ICD coding, and ABN will be discussed. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

RADIOGRAPHIC POSITIONING V

MRAD 245 Fall 3 Credits

22 hours of lecture 22 hours of lab

Fifth in a five-course series that focuses on radiographic positioning principles, terminology, pathology, and anatomy for radiographic purposes. Lecture discussion, demonstration and lab experiences will be used to present information on positioning and anatomy of the cranium, facial bones and paranasal sinuses. Projections studied will include cross-table images for trauma exams. Radiographic compliance, ICD coding, and ABN will be discussed. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

PATHOPHYSIOLOGY FOR MEDICAL IMAGING

MRAD 250 Summer 3 Credits

33 hours of lecture

Etiology of disease and the impact on the human body including cultural implications. Physiologic effects of disease on body systems and the role of Diagnostic Imaging in diagnosis and treatment. Concurrent enrollment in MRAD 225 and 270. Prerequisite: A grade of "C" or better in MRAD 154, 216, 224 and 245 or consent of Instructional Unit.

RADIOGRAPHIC INFORMATION MANAGEMENT

MRAD 251 Spring 2 Credits

22 hours of lecture

Fundamentals of digital radiography, Radiology Information System (RIS), and Picture Archiving and Communication System (PACS), basic Medical Imaging Information systems, CR and DR Image acquisition, manipulation and quality control. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

RADIOBIOLOGY

MRAD 253 Spring 2 Credits

22 hours of lecture

Overview of the principles involving the interaction of radiation with living systems. Radiation effects on molecules, cells, tissues, and the body as a whole. Topics include: radiolysis of water, linear energy transfer, relative biologic effectiveness, acute radiation syndrome, effects on embryo and fetus, chromosomal aberrations, mutations, risk estimates, and carcinogenesis. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

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ADVANCED MODALITIES

MRAD 255 Summer 1 Credit

11 hours of lecture

Introduction to CT, MRI, sonography, mammography, special fluoroscopic procedures and other advanced imaging modalities including angiography and interventional. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

LEADERSHIP AND MANAGEMENT

MRAD 270 Spring 1 Credit

11 hours of lecture

Introductory to leadership skills associated with patient care and management. Focus on supervision, delegation, conflict resolution, leadership styles, quality assurance, ethics, work environment, responsibility, accountability, collaboration and teamwork; as well as interviewing and resume training. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

MEDICAL RADIOGRAPHY REVIEW

MRAD 275 Fall 2 Credits

22 hours of lecture

Comprehensive review class to prepare students to sit for the American Registry of Radiologic Technologists (ARRT) certification examination: radiation protection, equipment operation and quality control, image production and evaluation, radiographic procedures, and patient care and education are covered in adherence with ARRT exam specifications. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

CROSS SECTIONAL ANATOMY FOR IMAGING PROFESSIONAL

MRAD 279 Summer 3 Credits

33 hours of lecture

Sectional human anatomy in the axial/transverse, sagittal, and coronal planes with emphasis on the brain, head, chest and abdominopelvic cavity. Introduction to basic CT physics. Concurrent enrollment in the Medical Radiography Program with a grade of "C" or better. Prerequisite: Admission in the Medical Radiography Program and consent of the Instructional Unit.

SELECTED TOPICS

MRAD 280 Fall Winter Spring 1 – 5 Credits

55 hours of lecture

Varying topics in Medical Radiography, as listed in the quarterly class schedule. May be repeated for credit. Prerequisite: Consent of Instructional Unit.

SPECIAL PROJECTS

MRAD 290 Summer Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize, and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

Meteorology

ATMOSPHERE AND THE ENVIRONMENT

METR 101 Fall Winter Spring 5 Credits 44 hours of lecture 44 hours of lab

Fundamental theories in meteorology and current topics in the atmospheric sciences are developed conceptually for non-science students interested in the changing environment. Topics include atmospheric structure and composition, global circulation and atmospheric motions, clouds and precipitation, weather patterns and weather prediction, tornadoes, hurricanes, the greenhouse effect, atmospheric ozone, air pollution, and El Nino. [NS, SE]

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SPECIAL PROJECTS

METR 290 Fall Winter Spring 1 – 5 Credits

Opportunity to plan and complete special projects approved by the instructional unit. Prerequisite: Consent of Instructional Unit. [GE]

Music

FUNDAMENTALS OF MUSIC

MUSC 098 Summer 2 Credits

22 hours of lecture

Fundamentals of reading and writing music including clefs, pitch, scales, chords and rhythm.

SPECIAL SEMINARS

MUSC 100 Summer Fall Winter Spring 1 – 5 Credits

55 hours of lecture

Special workshops on various musical topics as listed in the quarterly class schedule. [HA, SE]

BEGINNING PIANO CLASS

MUSC 101 Summer Fall Winter Spring 2 Credits

22 hours of lecture

Beginning-level study of the piano. [HB, SE]

READING RHYTHM LAB

MUSC 103 Fall Winter Spring 1 – 2 Credits

44 hours of lab

Learn or improve reading of musical rhythms. Self-paced, individualized instruction using tapes. Placement in program via pre-test. Covers basic to professional level. [HB, SE]

MUSIC APPRECIATION

MUSC& 104 Summer Fall Winter Spring 3 Credits

33 hours of lecture

Study and understanding of music. Nonverbal explorations into the listening process, a brief look at the history of Western music, and work in formal descriptive music analysis. [HA, SE]

MUSIC IN EARLY CHILDHOOD EDUCATION

MUSC 106 Summer Fall Winter Spring 3 Credits

33 hours of lecture

Introduction to music as a teaching tool for young children, and to the importance of music in the educational development of children. Students develop skills in reading music, working with the musical abilities of young children, and using music in the classroom. [HB, SE]

BEGINNING GUITAR CLASS

MUSC 110 Fall Winter Spring 2 Credits

22 hours of lecture

Beginning-level study of the guitar. [HB, SE]

BEGINNING VOICE CLASS

MUSC 115 Winter 2 Credits

11 hours of lecture 22 hours of lab

Basic technique and knowledge about singing. No previous experience or music study required. [HB, SE]

MUSIC HISTORY

MUSC 116 Fall 5 Credits

55 hours of lecture

Music of the Middle Ages, Renaissance and Baroque studied in context of its cultural and historical environment.

Recordings of Gregorian chant, polyphonic music of the Renaissance (des Pres and Palestrina) and Baroque music (Bach, Frescobaldi, Corelli, Monteverdi, and Handel) listened to and studied. [HA, SE]

MUSIC HISTORY

MUSC 117 Fall Winter Spring 5 Credits

55 hours of lecture

Music of the classical and romantic eras studied in context of its cultural and historical environment. Recordings of Haydn, Mozart, Beethoven, Schubert, Wagner, Brahms, and others listened to and studied. [HA, SE]

MUSIC HISTORY

MUSC 118 Winter Spring 5 Credits

55 hours of lecture

Music of the twentieth century studied in context of its cultural and historical environment. Recordings and live performances. Debussy, Stravinsky, Schoenberg, Berg, Hindemith, Stockhausen, and others listened to and studied in context of 20th century culture. [SE, HA]

EAR TRAINING 1

MUSC& 121 Fall 2 Credits

22 hours of lecture

Learning to write what is heard in melodic and intervalic ways. Sight singing and chord recognition. Develops rhythmic, melodic, and harmonic perception skills through dictation, sight singing and drill. [HB, SE]

EAR TRAINING 2

MUSC& 122 Winter 2 Credits

22 hours of lecture

Continuation of MUS 144. Learning to write what is heard in melodic and intervalic ways. Sight-singing and chord recognition. Develops rhythmic, melodic, and harmonic perception skills through dictation, sight-singing and drill. Prerequisite: MUS 144 or consent of Instructional Unit. [HB, SE]

EAR TRAINING 3

MUSC& 123 Spring 2 Credits

22 hours of lecture

Learning to write what is heard in melodic and intervalic ways. Sight-singing and chord recognition. Prerequisite: MUS 145 or consent of Instructional Unit. [HB, SE]

ROCK MUSIC

MUSC 125 Fall Winter Spring 3 Credits

33 hours of lecture

Rhythm, melody, harmony, timbre, text uses, and form in current rock music. Problems and definitions of these elements with illustrations from various styles of rock music. [HA, SE]

WORLD FOLK MUSIC

MUSC 127 Fall Winter Spring 3 Credits

33 hours of lecture

Folk music in selected cultures beginning with the Anglo-American folk song. Music and cultural values. Role of music in folk cultures. Appreciation of differences in music styles as they relate to their social settings. [HA, SE]

MUSIC APPRECIATION

MUSC 128 Summer Fall Winter Spring 3 Credits

33 hours of lecture

Study and understanding of music. Nonverbal explorations into the listening process, a brief look at the history of Western music, and work in formal descriptive music analysis. [HA, SE]

JAZZ APPRECIATION

MUSC 135 Fall Winter Spring 3 Credits

33 hours of lecture

An interactive process of learning for all jazz enthusiasts, from casual listeners to experienced performers. Topics

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include ways to listen to jazz, a chronology of significant jazz periods, societal events affecting each period, and biographies of key performers, culminating in a fieldwork project focusing on local jazz groups.

CLARK COLLEGE CHORALE

MUSC 137 Fall Winter Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

The Clark College Chorale performs a wide variety of choral literature including classical masterworks and non-classical genres for both male and female as well as mixed-voicing choral music. Open to all students and community members, the Chorale performs a minimum of one concert per term with possible additional performances. Prerequisite: Audition or consent of Instructional Unit. [HB, SE]

CLARK COLLEGE CHORALE

MUSC 138 Fall Winter Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

The Clark College Chorale performs a wide variety of choral literature including classical masterworks and nonclassical genres for both male and female as well as mixed-voicing choral music. Open to all students and community members, the Chorale performs a minimum of one concert per term with possible additional performances. Prerequisite: Audition or consent of Instructional Unit. [HB, SE]

CLARK COLLEGE CHORALE

MUSC 139 Fall Winter Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

The Clark College Chorale performs a wide variety of choral literature including classical masterworks and nonclassical genres for both male and female as well as mixed-voicing choral music. Open to all students and community members, the Chorale performs a minimum of one concert per term with possible additional performances. Prerequisite: Audition or consent of Instructional Unit. [HB, SE]

MUSIC THEORY I

MUSC& 141 Fall 5 Credits

55 hours of lecture

First-year musicianship. Sound sources and nature of sound. Writing skills and use of musical symbol-notation. Basic vocabulary of music. Introduction to forms, composition, and analysis. Open to all students. Concurrent enrollment in MUS 144 required. [HA, SE]

MUSIC THEORY II

MUSC& 142 Winter 5 Credits

55 hours of lecture

Continuation of MUSC& 141. Addition to the I 6-4, II, VI, III chords to harmonic tones, ear training in melodic and rhythmic concepts. Intervals and introduction to the keyboard. Concurrent enrollment in MUSC& 122 required. Prerequisite: MUSC& 141 or consent of Instructional Unit. [HA, SE]

MUSIC THEORY III

MUSC& 143 Spring 5 Credits

55 hours of lecture

Continuation of MUSC& 142. Chromatic chords, popular song forms and jazz-related harmonies and forms. Concurrent enrollment in MUSC& 123 required. Prerequisite: MUSC& 142 or consent of Instructional Unit. [HA, SE]

ORCHESTRA

MUSC 150 Fall Winter Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

Performance of orchestral literature from a variety of periods and styles. [HB, SE]

ORCHESTRA

MUSC 151 Fall Winter Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

Performance of orchestral literature from a variety of periods and styles. [HB, SE]

ORCHESTRA

MUSC 152 Fall Winter Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

Performance of orchestral literature from a variety of periods and styles. [HB, SE]

WOMEN'S CHORAL ENSEMBLE

MUSC 153 Fall Winter Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

Performance of choral music from a variety of periods and styles written for women's voices. Prerequisite: Audition or consent of Instructional Unit. [HB, SE]

WOMEN'S CHORAL ENSEMBLE

MUSC 154 Fall Winter Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

Performance of choral music from a variety of periods and styles written for women's voices. Prerequisite: Audition or consent of Instructional Unit. [HB, SE]

WOMEN'S CHORAL ENSEMBLE

MUSC 155 Fall Winter Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

Performance of choral music from a variety of periods and styles written for women's voices. Prerequisite: Audition or consent of Instructional Unit. [HB, SE]

APPLIED VOICE

MUSC 170 Summer Fall Winter Spring 1 Credit

11 hours of lecture

Private voice lessons with a college-approved teacher. Prerequisite: Written consent of Instructional Unit required. [HB, SE]

APPLIED VOICE

MUSC 171 Summer Fall Winter Spring 1 Credit

11 hours of lecture

Private voice lessons with a college-approved teacher. Prerequisite: Written consent of Instructional Unit required. [HB, SE]

APPLIED VOICE

MUSC 172 Summer Fall Winter Spring 1 Credit

11 hours of lecture

Private voice lessons with a college-approved teacher. Prerequisite: Written consent of Instructional Unit required. [HB, SE]

APPLIED PIANO

MUSC 173 Summer Fall Winter Spring 1 Credit

11 hours of lecture

For students with some previous keyboard experience. Prerequisite: MUS 201 and written consent of Instructional Unit required. [HB, SE]

APPLIED PIANO

MUSC 174 Summer Fall Winter Spring 1 Credit

11 hours of lecture

For students with some previous keyboard experience. Prerequisite: MUS 201 and written consent of Instructional Unit required. [HB, SE]

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APPLIED PIANO

MUSC 175 Summer Fall Winter Spring 1 Credit

11 hours of lecture

For students with some previous keyboard experience. Prerequisite: MUS 201 and consent of Instructional Unit. [HB, SE]

APPLIED INSTRUMENT

MUSC 176 Summer Fall Winter Spring 1 Credit

11 hours of lecture

Private lessons with a college-approved teacher. Instruction available for orchestra and band instruments. Prerequisite: Written consent of Instructional Unit required. [HB, SE]

APPLIED INSTRUMENT

MUSC 177 Summer Fall Winter Spring 1 Credit

11 hours of lecture

Private lessons with a college-approved teacher. Instruction available for orchestra and band instruments. Prerequisite: Written consent of Instructional Unit required. [HB, SE]

APPLIED INSTRUMENT

MUSC 178 Summer Fall Winter Spring 1 Credit

11 hours of lecture

Private lessons with a college-approved teacher. Instruction available for orchestra and band instruments. Prerequisite: Written consent of Instructional Unit required. [HB, SE]

CONCERT BAND

MUSC 180 Fall Winter Spring 1 – 2 Credits 11 hours of lecture 22 hours of lab

Open to all students with experience performing on brass, woodwind, and percussion instruments. The Clark College Concert Band performs a wide spectrum of standard concert band and contemporary wind ensemble literature in at least one concert per quarter. Topics include musical excellence, and skills for teamwork and leadership. No auditions necessary to enroll but the ability to read music on your respective instrument is required.

CONCERT BAND

MUSC 181 Fall Winter Spring 1 – 2 Credits
11 hours of lecture 22 hours of lab

Open to all students with experience performing on brass, woodwind, and percussion instruments. The Clark College Concert Band performs a wide spectrum of standard concert band and contemporary wind ensemble literature in at least one concert per quarter. Topics include musical excellence, and skills for teamwork and leadership. No auditions necessary to enroll but the ability to read music on your respective instrument is required.

CONCERT BAND

MUSC 182 Fall Winter Spring 1 – 2 Credits 11 hours of lecture 22 hours of lab

Open to all students with experience performing on brass, woodwind, and percussion instruments. The Clark College Concert Band performs a wide spectrum of standard concert band and contemporary wind ensemble literature in at least one concert per quarter. Topics include musical excellence, and skills for teamwork and leadership. No auditions necessary to enroll but the ability to read music on your respective instrument is required.

CONCERT CHOIR

MUSC 183 Fall Winter Spring 1 – 2 Credits
11 hours of lecture 22 hours of lab

The concert choir performs a wide variety of choral music in at least one public concert per quarter. Music notation, vocal technique, and effective interpretation of music literature. Open to all students interested in improving their vocal skills. Prerequisite: Audition or consent of Instructional Unit. [HB, SE]

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CONCERT CHOIR

MUSC 184 Fall Winter Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

The concert choir performs a wide variety of choral music in at least one public concert per quarter. Music notation, vocal technique, and effective interpretation of music literature. Open to all students interested in improving their vocal skills. Prerequisite: Audition or consent of Instructional Unit. [HB, SE]

CONCERT CHOIR

MUSC 185 Fall Winter Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

The concert choir performs a wide variety of choral music in at least one public concert per quarter. Music notation, vocal technique, and effective interpretation of music literature. Open to all students interested in improving their vocal skills. Prerequisite: Audition or consent of Instructional Unit. [HB, SE]

JAZZ IMPROVISATION

MUSC 186 Fall Winter Spring 2 Credits

11 hours of lecture 22 hours of lab

Improvisation on one or more of the traditional jazz band instruments or through vocal interpretation. [HB, SE]

VOCAL JAZZ ENSEMBLE

MUSC 187 Fall Winter Spring 1 – 3 Credits

22 hours of lecture 22 hours of lab

Selection, arrangement, rehearsal, and performance of a variety of popular vocal jazz pieces. Prerequisite: Audition or consent of Instructional Unit. [HB, SE]

VOCAL JAZZ ENSEMBLE

MUSC 188 Fall Winter Spring 1 – 3 Credits

22 hours of lecture 22 hours of lab

Selection, arrangement, rehearsal, and performance of a variety of popular vocal jazz pieces. Prerequisite: Audition or consent of Instructional Unit. [HB, SE]

VOCAL JAZZ ENSEMBLE

MUSC 189 Fall Winter Spring 1 – 3 Credits

22 hours of lecture 22 hours of lab

Selection, arrangement, rehearsal, and performance of a variety of popular vocal jazz pieces. Prerequisite: Audition or consent of Instructional Unit. [HB, SE]

INSTRUMENTAL ENSEMBLE

MUSC 193 Fall Winter Spring 2 Credits

11 hours of lecture 22 hours of lab

Combination of woodwinds and brasses organized as performing groups. Experience in ensemble playing. Familiarization with literature for ensembles. [HB, SE]

JAZZ ENSEMBLE

MUSC 195 Fall Winter Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

Open to all students who perform on saxophone, trumpet, trombone, guitar, piano, bass, and drum set. Topics include performance techniques of jazz styles and repertoire and introduction to a wide variety of jazz subjects from improvisation and jazz history to understanding Latin/Afro-Cuban jazz rhythm. Additional topics include musical excellence and skills for teamwork and leadership. Jazz improvisation skills not required, but strong music reading skills are required, to be assessed at the beginning of the term.

JAZZ ENSEMBLE

MUSC 196 Fall Winter Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

Open to all students who perform on saxophone, trumpet, trombone, guitar, piano, bass, and drum set. Topics

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include performance techniques of jazz styles and repertoire and introduction to a wide variety of jazz subjects from improvisation and jazz history to understanding Latin/Afro-Cuban jazz rhythm. Additional topics include musical excellence and skills for teamwork and leadership. Jazz improvisation skills not required, but strong music reading skills are required, to be assessed at the beginning of the term.

JAZZ ENSEMBLE

MUSC 197 Fall Winter Spring 1 – 2 Credits
11 hours of lecture 22 hours of lab

Open to all students who perform on saxophone, trumpet, trombone, guitar, piano, bass, and drum set. Topics include performance techniques of jazz styles and repertoire and introduction to a wide variety of jazz subjects from improvisation and jazz history to understanding Latin/Afro-Cuban jazz rhythm. Additional topics include musical excellence and skills for teamwork and leadership. Jazz improvisation skills not required, but strong music reading skills are required, to be assessed at the beginning of the term.

INTERMEDIATE PIANO CLASS

MUSC 201 Summer Fall Winter Spring 2 Credits

22 hours of lecture

Intermediate-level study of the piano. Prerequisite: MUS 101 or consent of Instructional Unit. [HB, SE]

ADVANCED PIANO CLASS

MUSC 202 Winter Spring 2 Credits

22 hours of lecture

A continuation of instruction from Intermediate Piano. Baroque, classic, romantic, and contemporary repertoire, jazz stylings and fake books. Prerequisite: MUSC 201 or consent of Instructional Unit. [HB, SE]

INTERMEDIATE GUITAR CLASS

MUSC 210 Winter Spring 2 Credits

22 hours of lecture

Intermediate-level study of the guitar. Prerequisite: MUS 110 or consent of Instructional Unit.

EAR TRAINING 4

MUSC& 221 Fall 2 Credits

22 hours of lecture

Trains students to write what they hear in harmonic and polyphonic textures. Examples coordinated with theory classes. [HB, SE]

EAR TRAINING 5

MUSC& 222 Winter 2 Credits

22 hours of lecture

Trains students to write what they hear in harmonic and polyphonic textures. Examples coordinated with theory classes. Prerequisite: MUSC& 221. [HB, SE]

EAR TRAINING 6

MUSC& 223 Spring 2 Credits

22 hours of lecture

Trains students to write what they hear in harmonic and polyphonic textures. Examples coordinated with theory classes. Prerequisite: MUSC& 222. [HB, SE]

MUSIC THEORY IV

MUSC& 231 Fall 3 Credits

33 hours of lecture

Extended chromatic chords, borrowed chords, Neapolitan 6th chords, augmented 6th chords, altered dominants, and chromatic mediants. Concurrent enrollment in MUS 244 required. Prerequisite: MUS 143 or consent of division. [HA, SE]

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MUSIC THEORY V

MUSC& 232 Winter 3 Credits

33 hours of lecture

Study of variation form, sonata form, rondo form and fugue. Concurrent enrollment in MUS 245 required. Prerequisite: MUS 241 or consent of division. [HA, SE]

MUSIC THEORY VI

MUSC& 233 Spring 3 Credits

33 hours of lecture

Invention and two-voice counterpoint. Extensions of harmonic language and compositional styles in the 20th/21st century, including atonal forms. Concurrent enrollment in MUS 245 required. Prerequisite: MUS 242 or consent of division. [HA, SE]

CLARK COLLEGE CHORALE

MUSC 237 Fall Winter Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

The Clark College Chorale performs a wide variety of choral literature including classical masterworks and non-classical genres for both male and female as well as mixed-voicing choral music. Open to all students and community members, the Chorale performs a minimum of one concert per term with possible additional performances. Prerequisite: Audition or consent of Instructional Unit. [HB, SE]

CLARK COLLEGE CHORALE

MUSC 238 Fall Winter Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

The Clark College Chorale performs a wide variety of choral literature including classical masterworks and nonclassical genres for both male and female as well as mixed-voicing choral music. Open to all students and community members, the Chorale performs a minimum of one concert per term with possible additional performances. Prerequisite: Audition or consent of Instructional Unit. [HB, SE]

CLARK COLLEGE CHORALE

MUSC 239 Fall Winter Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

The Clark College Chorale performs a wide variety of choral literature including classical masterworks and nonclassical genres for both male and female as well as mixed-voicing choral music. Open to all students and community members, the Chorale performs a minimum of one concert per term with possible additional performances. Prerequisite: Audition or consent of Instructional Unit. [HB, SE]

ORCHESTRA

MUSC 250 Fall Winter Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

Performance of orchestral literature from a variety of periods and styles. [HB, SE]

ORCHESTRA

MUSC 251 Fall Winter Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

Performance of orchestral literature from a variety of periods and styles. [HB, SE]

ORCHESTRA

MUSC 252 Fall Winter Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

Performance of orchestral literature from a variety of periods and styles. [HB, SE]

WOMEN'S CHORAL ENSEMBLE

MUSC 253 Fall Winter Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

Performance of choral music from a variety of periods and styles written for women's voices. Prerequisite: Audition or consent of Instructional Unit. [HB, SE]

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WOMEN'S CHORAL ENSEMBLE

MUSC 254 Fall Winter Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

Performance of choral music from a variety of periods and styles written for women's voices. Prerequisite: Audition or consent of Instructional Unit. [HB, SE]

WOMEN'S CHORAL ENSEMBLE

MUSC 255 Fall Winter Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

Performance of choral music from a variety of periods and styles written for women's voices. Prerequisite: Audition or consent of Instructional Unit. [HB, SE]

APPLIED VOICE

MUSC 270 Summer Fall Winter Spring 1 Credit

11 hours of lecture

Private voice lessons with a college-approved teacher. Prerequisite: Written consent of Instructional Unit required. [HB, SE]

APPLIED VOICE

MUSC 271 Summer Fall Winter Spring 1 Credit

11 hours of lecture

Private voice lessons with a college-approved teacher. Prerequisite: Written consent of Instructional Unit required. [HB, SE]

APPLIED VOICE

MUSC 272 Summer Fall Winter Spring 1 Credit

11 hours of lecture

Private voice lessons with a college-approved teacher. Prerequisite: Written consent of Instructional Unit required. [HB, SE]

APPLIED PIANO

MUSC 273 Summer Fall Winter Spring 1 Credit

11 hours of lecture

Private lessons with a college-approved teacher. Prerequisite: MUSC 201 and consent of Instructional Unit. [HB, SE]

APPLIED PIANO

MUSC 274 Summer Fall Winter Spring 1 Credit

11 hours of lecture

Private lessons with a college-approved teacher. Prerequisite: MUSC 201 and consent of Instructional Unit. [HB, SE]

APPLIED PIANO

MUSC 275 Summer Fall Winter Spring 1 Credit

11 hours of lecture

Private lessons with a college-approved teacher. Prerequisite: MUSC 201 and consent of Instructional Unit. [HB, SE]

APPLIED INSTRUMENT

MUSC 276 Summer Fall Winter Spring 1 Credit

11 hours of lecture

Private lessons with a college-approved teacher. Instruction available for orchestra and band instruments. Prerequisite: Written consent of Instructional Unit required. [HB, SE]

APPLIED INSTRUMENT

MUSC 277 Summer Fall Winter Spring 1 Credit

11 hours of lecture

Private lessons with a college-approved teacher. Instruction available for orchestra and band instruments. Prerequisite: Written consent of Instructional Unit required. [HB, SE]

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APPLIED INSTRUMENT

MUSC 278 Summer Fall Winter Spring 1 Credit

11 hours of lecture

Private lessons with a college-approved teacher. Instruction available for orchestra and band instruments. Prerequisite: Written consent of Instructional Unit required. [HB, SE]

CONCERT BAND

MUSC 280 Fall Winter Spring 1 - 2 Credits

11 hours of lecture 22 hours of lab

Open to all students with experience performing on brass, woodwind, and percussion instruments. The Clark College Concert Band performs a wide spectrum of standard concert band and contemporary wind ensemble literature in at least one concert per quarter. Topics include musical excellence, and skills for teamwork and leadership. No auditions necessary to enroll but the ability to read music on your respective instrument is required.

CONCERT BAND

MUSC 281 1 - 2 Credits Fall Winter Spring

11 hours of lecture 22 hours of lab

Open to all students with experience performing on brass, woodwind, and percussion instruments. The Clark College Concert Band performs a wide spectrum of standard concert band and contemporary wind ensemble literature in at least one concert per quarter. Topics include musical excellence, and skills for teamwork and leadership. No auditions necessary to enroll but the ability to read music on your respective instrument is required.

CONCERT BAND

MUSC 282 Fall Winter Spring 1 - 2 Credits

11 hours of lecture 22 hours of lab

Open to all students with experience performing on brass, woodwind, and percussion instruments. The Clark College Concert Band performs a wide spectrum of standard concert band and contemporary wind ensemble literature in at least one concert per quarter. Topics include musical excellence, and skills for teamwork and leadership. No auditions necessary to enroll but the ability to read music on your respective instrument is required.

CONCERT CHOIR

MUSC 283 Fall Winter Spring 1 - 2 Credits

11 hours of lecture 22 hours of lab

The concert choir performs a wide variety of choral music in at least one public concert per quarter. Music notation, vocal technique, and effective interpretation of music literature. Open to all students interested in improving their vocal skills. Prerequisite: Audition or consent of Instructional Unit. [HB, SE]

CONCERT CHOIR

MUSC 284 Fall Winter Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

The concert choir performs a wide variety of choral music in at least one public concert per quarter. Music notation, vocal technique, and effective interpretation of music literature. Open to all students interested in improving their vocal skills. Prerequisite: Audition or consent of Instructional Unit. [HB, SE]

CONCERT CHOIR

MUSC 285 Fall Winter Spring 1 - 2 Credits

11 hours of lecture 22 hours of lab

The concert choir performs a wide variety of choral music in at least one public concert per quarter. Music notation, vocal technique, and effective interpretation of music literature. Open to all students interested in improving their vocal skills. Prerequisite: Audition or consent of Instructional Unit. [HB, SE]

VOCAL JAZZ ENSEMBLE

MUSC 287 Fall Winter Spring 1 - 3 Credits

22 hours of lecture 22 hours of lab

Selection, arrangement, rehearsal, and performance of a variety of popular vocal jazz pieces. Prerequisite: Audition or consent of Instructional Unit. [HB, SE]

VOCAL JAZZ ENSEMBLE

MUSC 288 Fall Winter Spring 1 – 3 Credits

22 hours of lecture 22 hours of lab

Selection, arrangement, rehearsal, and performance of a variety of popular vocal jazz pieces. Prerequisite: Audition or consent of Instructional Unit. [HB, SE]

VOCAL JAZZ ENSEMBLE

MUSC 289 Fall Winter Spring 1 – 3 Credits

22 hours of lecture 22 hours of lab

Selection, arrangement, rehearsal, and performance of a variety of popular vocal jazz pieces. Prerequisite: Audition or consent of Instructional Unit. [HB, SE]

SPECIAL PROJECTS

MUSC 290 Summer Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [HB, GE]

JAZZ ENSEMBLE

MUSC 295 Fall Winter Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

Open to all students who perform on saxophone, trumpet, trombone, guitar, piano, bass, and drum set. Topics include performance techniques of jazz styles and repertoire and introduction to a wide variety of jazz subjects from improvisation and jazz history to understanding Latin/Afro-Cuban jazz rhythm. Additional topics include musical excellence and skills for teamwork and leadership. Jazz improvisation skills not required, but strong music reading skills are required, to be assessed at the beginning of the term.

JAZZ ENSEMBLE

MUSC 296 Fall Winter Spring 1 – 2 Credits
11 hours of lecture 22 hours of lab

Open to all students who perform on saxophone, trumpet, trombone, guitar, piano, bass, and drum set. Topics include performance techniques of jazz styles and repertoire and introduction to a wide variety of jazz subjects from improvisation and jazz history to understanding Latin/Afro-Cuban jazz rhythm. Additional topics include musical excellence and skills for teamwork and leadership. Jazz improvisation skills not required, but strong music reading skills are required, to be assessed at the beginning of the term.

JAZZ ENSEMBLE

MUSC 297 Fall Winter Spring 1 – 2 Credits

11 hours of lecture 22 hours of lab

Open to all students who perform on saxophone, trumpet, trombone, guitar, piano, bass, and drum set. Topics include performance techniques of jazz styles and repertoire and introduction to a wide variety of jazz subjects from improvisation and jazz history to understanding Latin/Afro-Cuban jazz rhythm. Additional topics include musical excellence and skills for teamwork and leadership. Jazz improvisation skills not required, but strong music reading skills are required, to be assessed at the beginning of the term.

Network Technology

INTRODUCTION TO VOICE AND DATA COMMUNICATIONS

DNET 102 Summer Fall Winter Spring 2 Credits

11 hours of lecture 22 hours of lab

Introduction to voice and data communications for beginning students. Topics include key facets of voice and data communications: operation of a telephone set, sending voice over data networks, processing of calls in public and private telephone systems. [GE]

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CISCO CCNA 1: NETWORK + AND CCNA NETWORK BASICS

DNET 121 Summer Fall Winter Spring 6 Credits

44 hours of lecture 44 hours of lab

First of four courses to prepare for Cisco CCNA certification: an introduction to concepts needed for Network+ certification. Topics include network terminology and protocols, local-area networks (LANs), wide-area networks (WANs), Open System Interconnection (OSI) models, cabling, cabling tools, routers, switches, Ethernet, Internet Protocol (IP) addressing, and network standards. Focus on the proper care, maintenance, and use of networking software, tools, and equipment and all local, state, and federal safety, building, and environmental codes and regulations. [GE]

COOPERATIVE WORK EXPERIENCE

DNET 199 Fall Winter Spring 1 – 6 Credits

198 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employee evaluation. Prerequisite: Completion of or concurrent enrollment in HDEV 195 and 198 or 200 and consent of Instructional Unit. [GE]

TELECOM 1: BASIC TELECOMMUNICATIONS

DNET 211 Fall Winter Spring 6 Credits 44 hours of lecture 44 hours of lab

First of two courses for CCNT certification: fundamentals of telecommunications and comprehensive introduction to analog and digital concepts. Topics include history of telecommunications, structure of business systems (including station sets, PBX, key and hybrid systems, ISDN and broadband), Consumer Premises Equipment (CPE), and services (dedicated and switched); analog signals – their history and associated variables; digital systems – their advantages over analog, also Pulse Code Modulation, Time Division Multiplexing, optical standards and loop carriers; transmission networks, switching, and signaling. Network+ Certification may substitute as a prerequisite for DNET 211. Prerequisite: A grade of "C" or better in DNET 121 or CTEC 151, or consent of Instructional Unit. [GE]

TELECOM 2: VOICE OVER IP (VOIP) ESSENTIALS

DNET 212 Fall Winter Spring 6 Credits
44 hours of lecture 44 hours of lab

Second of two courses of CCNT certification: Introduction to Computer-Telephony Integration Essentials (CTI) and Voice over IP (VoIP), CTI topics include CTI architecture, hardware, market applications and system development; VoIP topics include its technology, benefits, QoS issues and their solutions, and standards; Packet voicing basics, Internet technology, and the benefits and applications of VoIP; Gateways and their various functions, major issues involved in bandwidth consumption, and consideration of uses of PCs as phones; transmission standards and protocols in VoIP networks (e.g. H.323,SIP,G.7xx); Quality of Service (QoA) issues associated with VoIP technology, and the most significant solutions to these QoS issues. Prerequisite: A grade of "C" or better in DNET 211, or consent of Instructional Unit. [GE]

INTRO TO NETWORK SERVERS: WINDOWS AND LINUX

DNET 220 Winter Spring 6 Credits

44 hours of lecture 44 hours of lab

Knowledge and skills for using Windows Server OS and LINUX Server OS to setup LAN/WAN connections and authentication; and to explore features of the network operating systems, such as FTP, email, web server, file server, print server, remote desktop, DNS, DHCP, and users and groups. Prerequisite: A grade of "C" or better in DNET 121 or CTEC 151, or consent of Instructional Unit.

CISCO CCNA 1: NETWORK FUNDAMENTALS

DNET 221 Summer Fall Winter Spring 6 Credits 44 hours of lecture 44 hours of lab

Introduction to architecture, structure, functions, components, and models of the Internet, using the OSI and TCP layered models to examine the nature and roles of protocols and services at the application, network, data link, and physical layers. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. Students will build simple LAN topolo-

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gies by applying basic principles of cabling; performing basic configurations of network devices, including routers and switches; and implementing IP addressing schemes. Prerequisite: A grade of "C" or better in MATH 090, ENGL 098, or consent of Instructional Unit.

CISCO CCNA 2: ROUTING PROTOCOLS AND CONCEPTS

DNET 222 Summer Fall Winter Spring 6 Credits

44 hours of lecture 44 hours of lab

Architecture, components, and operation of routers, and the principles of routing and routing protocols. Topics include analyzing, configuring, verifying, and troubleshooting the primary routing protocols RIPv1, RIPv2, EIGRP, and OSPF. Skills include recognizing and correcting common routing issues and problems, through basic procedural labs, basic configuration, implementation, and troubleshooting labs. Prerequisite: A grade of "C" or better in DNET 221, or consent of Instructional Unit.

CISCO CCNA 3: LAN SWITCHING AND WIRELESS

DNET 223 Summer Fall Winter Spring 6 Credits

44 hours of lecture 44 hours of lab

Comprehensive, theoretical, and practical approach to learning the technologies and protocols needed to design and implement a converged switched network; the hierarchical network design model and selecting devices for each layer. Focus on how to configure a switch for basic functionality and how to implement Virtual LANs, VTP, and Inter-VLAN routing in a converged network; and the different implementations of Spanning Tree Protocol in a converged network. Knowledge and skills necessary to implement a WWLAN in a small to medium network. Prerequisite: A grade of "C" or better in DNET 222, or consent of Instructional Unit.

CISCO CCNA 4: ACCESSING THE WAN

DNET 224 Summer Fall Winter Spring 6 Credits 44 hours of lecture 44 hours of lab

WAN technologies and network services required by converged applications in Enterprise Networks using the Cisco Enterprise Composite model (ECM) to introduce integrated network services. Topics include how to select the appropriate devices and technologies to meet ECM requirements, how to implement and configure common data link protocols, how to apply WAN security concepts, principles of traffic, access control and addressing services, and how to detect, troubleshoot, and correct common enterprise network implementation issues. Prerequisite: A grade of "C" or better in DNET 223, or consent of Instructional Unit.

CISCO CCNA SECURITY

DNET 225 Fall Spring 6 Credits

44 hours of lecture 44 hours of lab

Preparation to obtain CCNA Security Certification. Course meets the needs of IT professionals responsible for network security. Developing skills for job roles such as Network Security Specialists, Security Administrators, and Network Security Support Engineers. Skills include installation, troubleshooting and monitoring of network devices to maintain integrity, confidentiality and availability of data and devices. Competency in the technologies that Cisco uses in its security structure. Introduction to core security technologies as well as how to develop security policies and mitigate risks. Prerequisite: A grade of "C" or better in DNET 224, or consent of Instructional Unit.

VOICE OVER IP

DNET 226 Fall Spring 6 Credits 44 hours of lecture 44 hours of lab

Preparation to obtain Cisco CCNA Voice certification. Required skill set for specialized job roles in voice technologies such as voice technologies administrator, voice engineer, and voice manager; in-demand skills in VoIP technologies such as IP PBX, IP telephony, handset, call control, and voicemail solutions; and exposure to the Cisco Unified Communications architecture and design covering mobility, presence, and TelePresence applications. Prerequisite: A grade of "C" or better in DNET 224, or consent of Instructional Unit.

CISCO CCNA 2: ROUTERS AND ROUTING BASICS

DNET 231 Fall Winter Spring 6 Credits
44 hours of lecture 44 hours of lab

Second of four courses for Cisco CCNA certification: an introduction to initial router configuration. Topics

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include Cisco IOS Software management, routing protocol configuration, TCP/IP, and access control lists (ACLs). Focus on skills to configure a router, managing Cisco IOS Software, configuring protocol on routers, and set the access lists to control the access to routers. Prerequisite: A grade of "C" or better in DNET 121 or CTEC 151, or consent of Instructional Unit. [GE]

COMPTIA A+ COMPUTER SUPPORT TECHNICIAN

DNET 232 Summer Fall Winter Spring 6 Credits

44 hours of lecture 44 hours of lab

Preparation to successfully pass the CompTIA A+ certification, the industry standard for computer support technicians. Focus on the installation, preventative maintenance, networking, security and troubleshooting of PC desktop systems, with emphasis on hands-on role playing experiences to develop excellent customer service and communication skills to work with clients. Prerequisite: A grade of "C" or better in CTEC 110, or department approval.

SERVER HARDWARE/SOFTWARE: SERVER+

DNFT 233 Summer Fall Winter Spring 6 Credits

44 hours of lecture 44 hours of lab

Focus on CompTIA Server+ certification and Industry Standard Server Architecture (ISSA) issues, such as RAID, SCSI, multiple CPUs, SANs - and more. Prerequisite: A grade of "C" or bette in CTEC 210, or consent of Instructional Unit.

MICROSOFT ACTIVE DIRECTORY

DNET 234 Summer Fall Winter Spring 6 Credits

44 hours of lecture 44 hours of lab

Windows Server 2009 Active Directory Domain Services includes features allowing organizations to simplify and secure deployment, and to administer AD DS more efficiently. Developing comprehensive hands-on skills required to effectively manage and secure a high-availability AD enterprise and ensure a successful migration to Windows Server 2008 Active Directory. Prerequisite: A grade of "C" or better in DNET 221, or consent of Instructional Unit.

MICROSOFT NETWORK INFRASTRUCTURE

Summer Fall Winter Spring **DNET 235** 6 Credits

44 hours of lecture 44 hours of lab

Skills to design a Windows Server 2008 Network Infrastructure that meets business and technical requirements for network services. Prerequisite: A grade of "C" or better in DNET 234, or consent of Instructional Unit.

MICROSOFT SERVER ADMINISTRATOR

DNET 236 Summer Fall Winter Spring 6 Credits

44 hours of lecture 44 hours of lab

Windows Server 2008 provides administrators with powerful and flexible tools to overcome a multitude of administrative challenges to infrastructure, and management of complex server environments. Developing practical skills and experience to administer, troubleshoot and secure a Windows Server 2008 environment. Prerequisite: A grade of "C" or better in DNET 235, or consent of Instructional Unit.

DESKTOP SUPPORT TECHNICIAN

DNET 237 Summer Fall Winter Spring 6 Credits

44 hours of lecture 44 hours of lab

Hands-on lab/lecture preparation for the Microsoft MCITP Exam 70-680: Windows 7 Desktop Support and Administration. Focus on doing a clean install, performing an upgrade, migrate user profiles, system imaging, predeployment, preparing a VHD, configure devices, application compatibility, networking (IPv4 and IPv6), firewall settings, remote management, backup and recovery. Prerequisite: A grade of "C" or better in DNET 232, or department approval.

CISCO CCNA 3: SWITCHING BASICS AND ADV ROUTING

DNFT 241 Summer Fall Winter Spring 6 Credits

44 hours of lecture 44 hours of lab

Third of four courses for Cisco CCNA certification: Advanced IP addressing techniques (Variable Length Subnet Masking [VLSM]), intermediate routing protocols (RIP v2, single-area OSPF, EIGRP), command-line interface

configuration of switches, Ethernet switching, Virtual LANs (VLANs), Spanning Tree Protocol (STP), and VLAN Trunking Protocol (VTP). Particular emphasis on students' applying learning from CCNA 1 and 2 to a network and explaining how and why a particular strategy is employed. Prerequisite: A grade of "C" or better in DNET 231, or consent of Instructional Unit. [GE]

DATACENTER VIRTUALIZATION TECHNOLOGY

DNET 242 Fall Winter Spring 6 Credits
44 hours of lecture 44 hours of lab

Fundamentals of server and desktop virtualization. Topics include practical and conceptual skills for understanding basic virtualization concepts, comparison of physical servers and virtualized servers, skills for planning and implementing datacenter virtualization, the virtualized approach to datacenters with functions and services of their components, plus the various components, concepts and skill-sets associated with virtualization. Prerequisite: A grade of "C" or better in DNET 223 or CTEC 210, or consent of Instructional Unit.

CISCO CCNA 4: WAN TECHNOLOGIES

DNET 251 Summer Fall Winter Spring 6 Credits
44 hours of lecture 44 hours of lab

Fourth of four courses for Cisco CCNA certification: Advanced IP addressing techniques (Network Address Translation [NAT], Port Address Translation [PAT], and DHCP), WAN technology and terminology, PPP, ISDN, DDR, Frame Relay, network management, and introduction to optical networking. Particular emphasis on students' applying knowledge of CCNA 1, CCNA 2, and CCNA 3 to a network and explaining how and why a particular strategy is employed. Prepares students to take the CCNA Exam. Prerequisite: A grade of "C" or better in DNET 241, or consent of Instructional Unit. [GE]

PC TECHNICIAN A+ EXAM PREP

DNET 252 Fall Spring 2 Credits

22 hours of lecture

Preparing for CompTIA's A+ exams. Not intended for those with little to no experience with the installation, preventative maintenance, networking, security, and troubleshooting of PC desktop systems. Activities include lecture, study aids, testing and role playing experiences to develop the knowledge and skills needed to pass the current A+ exams for technician certification. Prerequisite: A grade of "C" or better in DNET 232 or consent of Instructional Unit.

CISCO CCNA EXAM I PREP

DNET 255 Summer Fall Winter Spring 2 Credits

22 hours of lecture

A fast-paced and comprehensive review of topics essential for successfully passing the Cisco CCNA INTRO exam. Successfully passing both the Cisco CCNA INTRO 7 ICND exams results in full Cisco CCNA industry certification. Topics include design and support, implementation, operation and technology. Prerequisite: A grade of "C" or better in DNET 121 and DNET 231, or consent of Instructional Unit.

CISCO CCNA EXAM II PREP

DNET 256 Summer Fall Winter Spring 2 Credits

22 hours of lecture

A fast-paced and comprehensive review of topics essential for successfully passing the Cisco CCNA ICND exam. Successfully passing both the Cisco CCNA INTRO & ICND exams results in full Cisco CCNA industry certification. Topics include planning and designing, implementation and operations, troubleshooting and technology. Prerequisite: A grade of "C" or better in DNET 241 and DNET 251, or consent of Instructional Unit.

CISCO NETWORK SECURITY I

DNET 261 Summer Winter 6 Credits
44 hours of lecture 44 hours of lab

Introduction to the use of Cisco PIX, Secure Router, and switch technologies for overall security processes emphasizing hands-on skills in the areas of secure perimeter, secure connectivity, security management, identify services, and intrusion detection. Prerequisite: A grade of "C" or better in DNET 231 and CTEC 230, or consent of Instructional Unit.

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CISCO NETWORK SECURITY II

DNET 271 Summer Winter 6 Credits

44 hours of lecture 44 hours of lab

Advanced application of Cisco PIX, Secure Router, and switch technologies for overall security processes emphasizing hands-on skills in the areas of secure perimeter, secure connectivity, security management, identify services, and intrusion detection. Prerequisite: A grade of "C" or better in DNET 261, or consent of Instructional Unit.

SELECTED TOPICS

DNET 280 1 – 5 Credits

55 hours of lecture

Topics vary. May be repeated for credit. Prerequisite: Consent of Instructional Unit. [GE]

SPECIAL PROJECTS

DNET 290 1 – 5 Credits

Opportunity to plan, organize, and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

CAPSTONE EXPERIENCE

DNET 299 Summer Fall Winter Spring 3 Credits

11 hours of lecture 44 hours of lab

CAPSTONE course in the DNET AAS and AAT degree programs at Clark College, normally taken during the final quarter of the program. Application of many topics covered in the other program courses in a simulated employee team or small group setting. Introduction to the experience of designing an enterprise network using required documentation of design and implementation. Topics include all aspects of network planning, design, and troubleshooting. Prerequisite: MCITP Server certification or CCNA certification, completion of all required core coursework related degree, and consent of Instructional Unit.

Nursing

FOUNDATIONS OF PROFESSIONAL NURSING

NURS 110 Fall Winter Spring 3 Credits

33 hours of lecture

Introduction to professional nursing; topics include health promotion and health care delivery systems, professional roles and standards, nurse-client relationships, and theoretical basis for nursing practice. Concurrent enrollment in NURS 111, 113, 114, and 115. These courses are linked; failure in one course requires repeat of all concurrent courses. Prerequisite: Consent of Instructional Unit. [GE]

FOUNDATIONS OF NURSING PRACTICE

NURS 111 Fall Winter Spring 4 Credits

88 hours of lab

Introduction to nursing practice in the community setting with emphasis on direct patient care of the older adult. Concurrent enrollment is required in NURS 110, 113, 114, and 115. Prerequisite: Consent of the Instructional Unit. [GE]

PROFESSIONAL NURSING SKILLS I

NURS 113 Fall Winter Spring 2 Credits

22 hours of lecture

Introduction to health assessment, nursing skills, clinical simulation, and entry level NAC competency testing. Concurrent enrollment in NURS 110, 111, 114 and 115. Prerequisite: Consent of the Instructional Unit required. [GE]

NURSING SKILLS PRACTICE I

NURS 114 Fall Winter Spring 1 Credit

22 hours of lab

Practice and nursing skill achievement on NURS 113 competencies. Concurrent enrollment in NURS 110, 111, 113 and 115. Prerequisite: Consent of the Instructional Unit. [GE]

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NURSING COMPETENCIES AND SIMULATION

NURS 115 Fall Winter Spring 2 Credits

44 hours of lab

Practice in the nursing skills lab under supervision at the first year nursing student level.

NURSING CONCEPTS I

NURS 120 Fall Winter Spring 2 Credits

22 hours of lecture

Introduction to nursing management of health problems, including fluid and electrolytes, the immune and musculoskeletal systems, and the peri-operative period in the acute care of community setting. Planning client care to include prevention of disease, promotion of wellness, and intervention in emotional and physical response to acute and chronic illness. Concurrent enrollment in NURS 121, 125 126 and 127. Prerequisite: A grade of "C" or above in NURS 110 or consent of the Instructional Unit. [GE]

NURSING CONCEPTS IN PRACTICE I

NURS 121 Fall Winter Spring 4 Credits

88 hours of lab

Introduction to medical/surgical concepts with emphasis on the management of the client in an acute and community setting. Concurrent enrollment in NURS 120, 125, 126 and 127. Prerequisite: A grade of "C" or above in NURS 110 or consent of the Instructional Unit. [GE]

NURSING COMPETENCIES AND SIMULATION

NURS 125 Fall Winter Spring 2 Credits

44 hours of lab

Practice in the nursing skills lab under supervision at the first year nursing student level. Concurrent enrollment in NURS 120, 121, 126 and 127.

PROFESSIONAL NURSING SKILLS II

NURS 126 Fall Winter Spring 1 Credit

11 hours of lecture

Intermediate nursing skills for peri-operative and wound care. Concurrent enrollment in NURS 120, 121, 125 and 127 required. Prerequisite: A grade of "C" or better in NURS 110 or consent of the Instructional Unit.

NURSING SKILLS PRACTICE II

NURS 127 Fall Winter Spring 1 Credit

22 hours of lab

Practice and nursing skill achievement on NURS 126 competencies. Concurrent enrollment in NURS 120, 121, 125 and 126. Prerequisite: A grade of "C" or above in NURS 110 or consent of the Instructional Unit. [GE]

FAMILY-CENTERED NURSING

NURS 130 Fall Winter Spring 2 Credits

22 hours of lecture

Theory and the nursing process related to care of children and their families. Physiologic and psychological adaptation during the childbearing and childrearing years; emphasis on the nurse's role in health promotion and education in the care of culturally diverse families in the community. Concurrent enrollment in NURS 131 and 132. Prerequisite: A grade of "C" or above in NURS 120 and 126 or consent of Instructional Unit. [GE]

NURSING CARE OF THE EMERGING FAMILY

NURS 131 Fall Winter Spring 4 Credits

88 hours of lab

Application of theoretical, assessment, and practice concepts for nursing care of intrapartum and postpartum women and newborn infants. Concurrent enrollment in NURS 130 and 132. Prerequisite: A grade of "C" or above in NURS 120 or consent of the Instructional Unit. [GE]

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NURSING CARE OF THE CHILD

NURS 132 Fall Winter Spring 4 Credits

88 hours of lab

Application of theoretical, assessment, and practice concepts for nursing care of children. Concurrent enrollment in NURS 130 and 131. Prerequisite: A grade of "C" or above in NURS 120 or consent of the Instructional Unit. [GE]

FAMILY CENTERED NURSING SKILLS

NURS 133 Fall Winter Spring 1 Credit

22 hours of lab

Simulation of beginning and intermediate nursing concepts with emphasis on client management. Concurrent enrollment in NURS 130, 131, and 132 required. Prerequisite: A grade of "C" or better in NURS 120 or consent of Instructional Unit. [GE]

SELECTED TOPICS-LEVEL II

NURS 150 Fall Winter Spring 1 – 15 Credits

Independent study modules to meet needs of the student. Course contents may be drawn from any of the Level I and II nursing courses. Credit will be based upon contracted work in keeping with college policies. Credit is not applicable toward a nursing major at Clark College. Prerequisite: Consent of nursing director. [GE]

COOPERATIVE WORK EXPERIENCE

NURS 199 Summer Fall Winter Spring 1 – 5 Credits

165 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit.

LPN TO RN BRIDGE

NURS 200 Summer 7 Credits

66 hours of lecture 22 hours of lab

Overview of nursing with emphasis on professional foundations, nursing process, pathophysiology, medication administration and review of principles and techniques of nursing care common to all clients. A scope of practice focus for LPN to RN role transition is included in this bridge course. Review of maternity and pediatric content as well as computer research as it relates to pathophysiology. Instructional methods include two weeks of classroom sessions, group discussions, group learning activities, nursing skills lab activities, eLearning projects, written assignments, oral presentation, and independent study. Students enrolled in the Clark College Nursing program are building a sound base of knowledge and developing critical thinking skills needed to effectively use that knowledge in their daily lives as well as in their clinical practice. Instructional methods include; two weeks of classroom sessions, group discussions, group learning activities, nursing skills lab activities. E-learning projects, written assignments, oral presentation, and independent study.

NURSING CONCEPTS II

NURS 210 Fall Winter Spring 3 Credits

33 hours of lecture

Nursing management of health problems involving cardiac, respiratory, renal and gastrointestinal systems in the acute care or community setting. Planning nursing interventions to include prevention of disease and promotion of wellness. Emphasis on the biopsychosocial effects of acute and chronic illness. Concurrent enrollment in NURS 211 and 212. Prerequisite: A grade of "C" or above in BIOL 240, ENGL 102, NUTR 103, PSYC 211, and NURS 130 or consent of the Instructional Unit. [GE]

NURSING CONCEPTS IN PRACTICE II

NURS 211 Fall Winter Spring 8 Credits

176 hours of lab

Advanced medical/surgical concepts with emphasis on the management of the acutely ill client. Concurrent enrollment in NURS 210 and 212. Prerequisite: A grade of "C" or above in BIOL 240, ENGL 102, NUTR 103, PSYC 211, and NURS 130 or consent of the Instructional Unit. [GE]

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NURSING SKILLS PRACTICE III

NURS 212 Fall Winter Spring 1 Credit

22 hours of lab

Simulation of advanced medical/surgical concepts with emphasis on the management of the acutely ill client. Concurrent enrollment in NURS 210 and 211. Prerequisite: A grade of "C" or above in BIOL 240, ENGL 102, NUTR 103, PSYC 211, and NURS 130 or consent of the Instructional Unit. [GE]

NURSING CONCEPTS III

NURS 220 Fall Winter Spring 2 Credits

22 hours of lecture

Advanced nursing concepts with emphasis on the organization of multiple patients. Nursing management of patients with health problems related to regulation and metabolism, sensory, perception, cognition, and mobility in the acute care or community setting. Concurrent enrollment in NURS 221, 222 and 223. Prerequisite: A grade of "C" or better in NURS 210 or consent of Instructional Unit. [GE]

NURSING CONCEPTS IN PRACTICE III

NURS 221 4 Credits Fall Winter Spring

88 hours of lab

Designed to provide the student the opportunity to put into practice previously learned skills learning to manage care for a group of clients. Concurrent enrollment in NURS 220, 222 and 223. Prerequisite: A grade of "C" or above in NURS 210 or consent of the Instructional Unit. [GE]

MENTAL HEALTH CONCEPTS

NURS 222 2 Credits Fall Winter Spring

22 hours of lecture

Mental health concepts related to biopsychosocial disorders. Care of the client with psychiatric disorders, using mental health promotion strategies based on theories of stress and adaption and the mind-body connection. Concurrent enrollment in NURS 223. Prerequisite: A grade of "C" or above in NURS 210 or consent of the Instructional Unit.

MENTAL HEALTH IN PRACTICE

NURS 223 4 Credits Fall Winter Spring

88 hours of lab

Care of the client with mental illness in the community. Clinical experience in both acute care inpatient and community outpatient settings. Concurrent enrollment in NURS 220, 221 and 222. Prerequisite: A grade of "C" or above in NURS 210 or consent of the Instructional Unit. [GE]

NURSING SKILLS PRACTICE II

1 - 10 Credits **NURS 225 Fall Winter Spring**

220 hours of lab

Practice in the nursing skills lab under supervision at the second year nursing level. [GE]

PROFESSIONAL LEADERSHIP

NURS 230 Fall Winter Spring 2 Credits

22 hours of lecture

Theory and application of leadership and management principles in the clinical setting. Topics include professional and ethical issues in nursing. Concurrent enrollment in NURS 231 and 232. Prerequisite: A grade of "C" or above in NURS 220 and 222 or consent of the Instructional Unit. [GE]

PROFESSIONAL LEADERSHIP IN PRACTICE

NURS 231 Fall Winter Spring 8 Credits

176 hours of lab

Advanced client care practice in a specialty area of the student's interest. Clinical areas include acute and community settings. Emphasis on developing leadership abilities as a professional nurse. Concurrent enrollment in NURS 230 and 232. Prerequisite: A grade of "C" or above in NURS 220 and 222 or consent of the Instructional Unit. [GE]

PROFESSIONAL ROLE IN THE COMMUNITY

NURS 232 Fall Winter Spring 1 Credit

22 hours of lab

Advanced simulation activities include mentorship and leadership/management of novice peers. Additional focus on community service and community volunteerism. Concurrent enrollment in NURS 230 and 231. Prerequisite: A grade of "C" or above in NURS 220 and 222 or consent of the Instructional Unit. [GE]

SELECTED TOPICS-LEVEL III

NURS 250 Fall Winter Spring 1 – 15 Credits

Independent study modules designed to meet student specialized needs. Content may be drawn from any of the associate degree nursing courses. Credit will be based upon contracted work in keeping with college policies. Credit is not applicable toward a nursing major at Clark College. Prerequisite: consent of nursing director. [GE]

SELECTED TOPICS

NURS 280 Summer Fall Winter Spring 1 – 5 Credits

55 hours of lecture

Selected topics in nursing. Topics vary and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit. Specific topics are listed in the quarterly class schedule.

SPECIAL PROJECTS

NURS 290 Summer Fall Winter Spring 1 – 15 Credits

Opportunity to plan, organize and complete special projects approved by the faculty of the department. Prerequisite: Consent of Instructional Unit. [GE]

Nursing Assistant Certified

NURSING ASSISTANT FOUNDATIONS

NAC 101 6 Credits

66 hours of lecture

Study and practice in preparation for the Washington state certification examination as a nursing assistant. Topics include anatomy and physiology, resident rights, concepts of death and dying, dementia care, legal aspects of care, scope of practice of the nursing assistant, function of the health care team, communication skills, infection control, safety and emergency procedures, and restorative care. Concurrent enrollment in NAC 102 is required.

NURSING ASSISTANT CLINICAL EXPERIENCE

NAC 102 3 Credits

66 hours of lab

Supervised clinical experience for Nursing Assistants in long term care settings. Concurrent enrollment in NAC 101 is required.

NURSING ASSISTANT FOUNDATIONS/CLINICAL

NAC 103 Summer Fall Winter Spring 9 Credits

66 hours of lecture 66 hours of lab

Study and practice in preparation for the Washington state certification examination as a nursing assistant. Topics include anatomy and physiology, resident rights, concepts of death and dying, dementia care, legal aspects of care, scope of practice of the nursing assistant, function of the health care team, communication skills, infection control, safety and emergency procedures, and restorative care. Includes supervised clinical experience for Nursing Assistants in long term care settings. Prerequisite: Successful completion of, or concurrent enrollment in FACPR 032, or consent of Instructional Unit.

SELECTED TOPICS

NAC 280 Fall Winter Spring 1 – 10 Credits

110 hours of lecture

Varying topics in the Nursing Assistant Certified program, as listed in the quarterly class schedule. May be repeated for credit. Prerequisite: Consent of Instructional Unit.

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Nutrition

GENERAL NUTRITION

NUTR 103 Summer Fall Winter Spring 3 Credits

33 hours of lecture

Nutrition of healthy human beings. Principles of balanced nutrition, physiology and metabolism of nutrients, and changing nutritional needs throughout the human life span. Prerequisite: A grade of "C" or better in CHEM 111 or higher. [NS, SE]

Paralegal

INTRODUCTION TO LEGAL THEORY

PRLE 101 Fall Winter Spring 3 Credits

33 hours of lecture

Introduction to the origin of our legal system and the theories giving rise to our common law, civil law, and statutory law systems, with emphasis on legal terminology in our contemporary legal system. Review of the court system with emphasis on our state courts and an overview of substantive law. [GE]

LEGAL ETHICS

PRLE 102 Winter Spring 3 Credits

33 hours of lecture

Introduction to legal ethics, a study of issues: respecting client confidentiality, protecting a client's privileged communications, avoiding conflicts of interests, and avoiding unauthorized practice of law. Exploration of the ethical issues regarding legal fees and fee sharing arrangements, advertising and solicitation, and competence and honesty.

LEGAL RESEARCH

PRLE 103 Fall Winter Spring 3 Credits

22 hours of lecture 22 hours of lab

Legal research terminology and legal research strategies. Topics include efficient techniques to locate state and federal legal information by citation; locate search tools; update validity of legal resources; construct appropriate legal citations using ALWD Citation Manual style; develop a research strategy to efficiently and productively research a given legal issue. Meets at the Clark County Courthouse Law Library for the research section of classes one through nine. Prerequisite: PRLE 101 required and PRLE 102 recommended.

LEGAL INTERVIEWING AND INVESTIGATION

PRLE 104 Fall Spring 3 Credits

33 hours of lecture

Strategies, techniques and tactics of interviewing witnesses and clients including investigation procedures and preparation of complete reports for the attorney. Prerequisite: CMST& 210 or 230 (or CMST 201 or 211) and PRLE 103 recommended. [GE]

LEGAL WRITING

PRLE 106 Fall 3 Credits

33 hours of lecture

Introduction to the basics of technical writing and the relationship of legal writing to legal analytical thought. Guidance through both theoretical and practical applications of writing. Focus on straightforward language. Prerequisite: PRLE 101. [GE]

CIVIL LITIGATION AND PROCEDURES

PRLE 109 Winter 3 Credits

33 hours of lecture

The litigation process, with emphasis on the law of torts and civil litigation including client and witness interviews, pleadings preparation, investigation, and appeal procedures. Prior completion of PRLE 102 and 104 recommended. Prerequisite: A grade of "C" or better in PRLE 106.

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CRIMINAL LAW AND PROCEDURES

PRLE 110 Fall 3 Credits

33 hours of lecture

The litigation process, with emphasis on criminal law including client and witness interviews, pleadings preparation, investigation and appeals preparation. Study of general criminal law and procedures to provide a basic understanding of the criminal justice system. Prior completion of PRLE 102 and 104 recommended. Prerequisite: A grade of "C" or better in PRLE 106. [GE]

REAL ESTATE AND PROPERTY LAW

PRLE 111 Fall 3 Credits

33 hours of lecture

Law of personal and real property with emphasis on common types of real estate transactions and conveyances such as deeds, contracts, leases, deeds of trust, liens, zoning agreements, assessments, searches and foreclosures. Drafting of conveyance instruments and methods of recording and searching public records. Prerequisite: PRLE 101 and 106. [GE]

LAW OFFICE PROCEDURES AND COMPUTER TECHNOLOGY

PRLE 115 Fall Spring 3 Credits

33 hours of lecture

Law office organization, specialized recordkeeping, law office computer applications (software in data management, storage and calendar controls), and accounting, scheduling, filing, management of personnel and other aspects of law office management. PRLE 102 recommended.

INTERVIEWING, INVESTIGATION AND EVIDENCE

PRLE 150 3 Credits

33 hours of lecture

Strategies, techniques and tactics for interviewing witnesses and clients including investigation procedures, collecting evidence and preparation of complete reports for the attorney. Students will understand, review and apply Rules of Evidence. Prerequisite: CMST& 210 or 230 (or CMST 201 or 211) and PRLE 103 recommended.

LEGAL DOCUMENT PREPARATION

PRLE 151 Winter 3 Credits

33 hours of lecture

Preparation of legal documents, legal terminology, and court rules and procedures as applied to general areas of law. Ability to type 40 wpm is recommended. Prerequisite: PRLE 101,102 and BTEC 122 or 125 or consent of Instructional Unit. [GE]

LEGAL OFFICE SEMINAR

PRLE 153 Fall Winter Spring 1 Credit

11 hours of lecture

Overview of student success strategies, library resources, the Legal system in the United States and the various employment opportunities in legal office occupations including discussion of job requirements and responsibilities. Concurrent enrollment in PRLE 299 required. Prerequisite: Consent of Instructional Unit. [GE]

COMPUTER RESEARCH IN LAW

PRLE 203 Summer Winter 3 Credits

11 hours of lecture 44 hours of lab

Survey of legal research terminology, electronic legal resources, and research strategies. Students will learn to locate state and federal legal information by citation through finding tools, utilize research strategies to efficiently locate non-legal information of interest to the legal researcher, evaluate the validity of electronic sources, and construct appropriate electronic sources. Prerequisite: A grade of "C" or better in PRLE 103 and 106. [GE]

FAMILY LAW

PRLE 204 3 Credits

33 hours of lecture

Law and theory relating to dissolutions of marriage, legal separation, parenting/custody agreements, prenuptials, ante-

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nuptial agreements, adoptions, child support, change of name, and post-divorce issues such as maintenance modification, child support modification, and parenting plan modifications. Prerequisite: PRLE 101 and PRLE 151.

ESTATE PLANNING AND PROBATE LAW

PRLE 205 3 Credits

33 hours of lecture

Law and theory of estate planning, probate, and options of probate with emphasis on wills, trusts, community property agreements, gifts, estate taxation, probate procedures, administration and accounting. Prerequisite: A grade of "C" or better in PRLE 101.

REAL ESTATE AND PROPERTY LAW

PRLE 206 3 Credits

33 hours of lecture

Law of personal and real property with emphasis on common types of real estate transactions and conveyances such as deeds, contracts, leases, deeds of trust, liens, zoning agreements, assessments, searches and foreclosures. Drafting of conveyance instruments and methods of recording and searching public records. Prerequisite: A grade of "C" or better in PRLE 101 and 106.

BUSINESS ORGANIZATIONS

PRLE 207 3 Credits

33 hours of lecture

Significant state law regarding corporations and partnerships, preparation and filing of corporate documents, partnership agreements, conduct of corporate shareholder and director meetings, corporate distributions, commercial litigation, secured transactions. Prerequisite: A grade of "C" or better in PRLE 101 and PRLE 103.

BANKRUPTCY LAW

PRLE 208 3 Credits

33 hours of lecture

Introduction to bankruptcy procedures including filing of initial petition, selection of appropriate relief, meeting of creditors, adversarial proceedings, the final discharge hearing, and automatic stay. Analysis of relief available under Chapter 7, 11, 12, and 13 of the United States Bankruptcy code. Prerequisite: A grade of "C" or better in PRLE 101, 102, 103, 106 and 115.

INSURANCE CLAIMS CASE PREPARATION

PRLE 209 3 Credits

33 hours of lecture

Introduction to case management theory, using a "walk-through" personal injury action and preparation/handling of insurance claim(s) on behalf of a civil plaintiff. A complete preparation of a legal case, from intake to litigation including applicable legal terminology, court rules and procedures. Emphasis on the practices of law surrounding insurance claims and policies related to a civil action. Prerequisite: A grade of "C" or better in PRLE 106 and 151 or consent of Instructional Unit.

LEGAL WRITING II

PRLE 210 3 Credits

33 hours of lecture

Methods of legal research and legal writing. Application of research and analysis skills learned in PRLE 103 Legal Research and PRLE 203 Computer Research in Law. Continuation of the writing skills learned in PRLE 106 Legal Writing I. Focus on skills to research more intricate issues of law in a more accurate and precise method, with emphasis on preparing complex legal documents such as an interoffice Memorandum, Memorandum in Support of Motion and other types of legal documents, including the Appellate Brief. Prerequisite: A grade of "C" or better in BTEC 122 Word for Business, PRLE 103 Legal Research, PRLE 203 Computer Research in Law and PRLE 106 Legal Writing.

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TORT LAW AND PROCEDURES

PRLE 211 3 Credits

33 hours of lecture

Resolution of personal injury claims with insurance companies, social security and workers' compensation claims, with emphasis on the interpretation of insurance policies and the procedures for processing claims and effecting settlements. Methods for identifying workers' compensation and social security claims, as well as the filing and processing of these claims through the applicable state and federal administrative law procedures. Prerequisite: A grade of "C" or better in PRLE 106.

LAW AND ECONOMICS

PRLE 212 3 Credits

33 hours of lecture

Legal rules, regulations and precedent interact with market mechanics and influence the allocation of resources. Focus on the common law property, contract and tort area, methods to explain, predict and evaluate such areas as a means to predict future outcomes and evaluate their potential impact upon societal welfare. Topics include relevant economic theories in conjunction with individual court cases to emphasize how the subtleties of the theory connect with key facts of the case. Course methodology develops the economic theory in the context of legal problems via point by point analysis.

SELECTED TOPICS

PRLE 280 Summer Fall Winter Spring 1 – 3 Credits

33 hours of lecture

Varying topics for the paralegal profession as listed in the quarterly class schedule. May be repeated for credit. [GE]

SPECIAL PROJECTS

PRLE 290 Summer Fall Winter Spring 1 – 5 Credits

Opportunity for students to plan, organize and complete special projects approved by the department. Contact the instructional dean, division chair or your instructor for more information or to make arrangements to register for Special Project credits in this department. (Note: special project closely supervised by the instructor. Student must create written plan, select an instructor and petition for Departmental approval.) Consent of Instructional Unit.

CASA SPECIAL PROJECT

PRLE 295 1 – 5 Credits

Court Appointed Special Advocate (CASA) Internship Project: a specialized Internship. Supervised, community service learning experience as trained, court appointed child advocate. Must complete thirty or more hours in CASA training and minimum one year commitment as a court appointed child advocate. No set requirement for hours worked per week, which is to be determined by the student and CASA. Work sites include the YWCA, Clark County courts, and other related off-site locations necessary for CASA program work. Prerequisite: Consent of Instructional Unit. Must receive admission into the Vancouver YWCA's Court CASA program. Must pass background check.

PARALEGAL INTERNSHIP

PRLE 299 Summer Fall Winter Spring 1 – 3 Credits

Attorney-supervised work-based learning experience in a law office or other legal facility for paralegal internship. A capstone including a scheduled internship. Credits/grades based on hours worked, work performance, and completion of learning objectives specified in a learning contract (demonstrated adequate skills and professionalism) and completion of Seminar "Paralegal Information Night". Prerequisite: Department Chair approval required, based on completion of core paralegal courses (all PRLE and BUS& 201).

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Pharmacy Technician

OVERVIEW OF PHARMACY

PHAR 100 Winter 2 Credits

22 hours of lecture

Overview of pharmacy with particular focus on the technician in pharmacy practice settings including job roles, resources and ethical standards of practice. [GE]

A MINI DOSE OF PHARMACY

PHAR 101 Spring 1 Credit

11 hours of lecture

A preview of the practice of pharmacy. Identifies the role of the pharmacy tech, explores various pharmacy practice settings for employment, beginning basics of the language of pharmacy, both in written and oral forms. [GE]

INTRODUCTION TO PHARMACY

PHAR 105 Fall 4 Credits

44 hours of lecture

Introduction to the role of the pharmacy technician in a variety of pharmacy practice settings including history, personnel, resources, and ethical standards of pharmacy practice. Prerequisite: A grade of "C" or better in BMED 110 and consent of Instructional Unit. [GE]

PHARMACY CALCULATIONS

PHAR 110 Spring 3 Credits

33 hours of lecture

Basic math and arithmetic skills as they relate to pharmacy practice. Calculations and manipulations of metrics and related dosages. Pharmacy topics related to mathematical functions are emphasized. Prerequisite: Consent of HEOC advisor. [GE]

PHARMACOLOGY I

PHAR 112 Summer Winter 5 Credits

55 hours of lecture

First of 2-quarter sequence in pharmacology. Topics include pharmacokinetic and pharmacodynamic principles of drug therapy, with focus on absorption, distribution, metabolism, excretion, drug classification, indication for use, dose, and side effects of the most common drugs, including antibiotics, analgesics, autonomic system, cardiovascular and respiratory drugs. Prerequisite: A grade of "C" or better in PHAR 105.

PHARMACY PRACTICE AND TECHNOLOGY

PHAR 114 4 Credits

33 hours of lecture 22 hours of lab

Pharmacy skills and knowledge essentials to the practice of pharmacy at the work site. Topics include correlation of terminology, computer system manipulation, use of current and emerging technology, and practical application of pharmacy dispensing activities. Prerequisite: Consent of HEOC advisor.

PHARMACY EXTERNSHIP I

PHAR 118 Winter 4 Credits

132 hours of clinical

Practical on-the-job instruction in the knowledge base required of a pharmacy assistant (technician) in the work force. Community pharmacies/facilities will be used for this course. Concurrent enrollment in PHAR 119 required. Prerequisite: A grade of "C" or better in PHAR 105 and consent of Instructional Unit. [GE]

PHARMACY EXTERNSHIP SEMINAR I

PHAR 119 Summer Winter 2 Credits

11 hours of lecture 22 hours of lab

First of 2-quarter sequence coordinating with PHAR 118 externship experience at work site. Topics include professionalism, productivity, handling challenging situations, and continuing education, with emphasis on success in

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the workplace. Group work, case study analysis, journal entries and a final written paper are required. Concurrent enrollment in PHAR 118 and written consent of Instructional Unit.

PHARMACOLOGY II

PHAR 122 5 Credits

55 hours of lecture

Second of 2-quarter sequence in pharmacology. Topics include pharmacokinetic and pharmacodynamic principles of drug therapy. Focus on absorption, distribution, metabolism, excretion, drug classification, indication for use, dose, and side effects of the most common drugs, including antidepressants and anti-anxiety agents, antipsychotics, anticonvulsants and other CNS disorder agents, hormone therapy, chemotherapy, antiretrovirals, as well as topicals, ophthalmics and otics. Prerequisite: Completion of PHAR 112 and written consent of the Instructional Unit required.

PHARMACY LAW

PHAR 123 Winter 2 Credits

22 hours of lecture

State and federal laws and regulations that pertain to the duties of pharmacy technicians. Revised Code of Washington and Washington Administrative Codes will be reviewed. Prerequisite: written consent of Instructional Unit required. [GE]

OVER-THE-COUNTER DRUGS

PHAR 125 Winter 3 Credits

33 hours of lecture

Medications available to patients without prescription. Particular attention to those medications that have changed from legend to non-prescription products and those most frequently carried by local pharmacies. Prerequisite: written consent of instructional unit required. [GE]

PHARMACY COMPOUNDING

PHAR 127 Fall Spring 4 Credits

33 hours of lecture 22 hours of lab

Overview of sterile products and aseptic technique for compounding of sterile products, intravenous (IV) drug delivery systems and equipment related to compounding and administration of IV products. Combination of lecture and lab projects.

PHARMACY EXTERNSHIP II

PHAR 128 Spring 4 Credits

132 hours of clinical

Continued practical, on-the-job instruction in the knowledge base required of a pharmacy (technician) in the work force. Concurrent enrollment in PHAR 129 required. Prerequisite: Completion of PHAR 105 and written consent of Instructional Unit required. [GE]

PHARMACY EXTERNSHIP SEMINAR II

PHAR 129 Fall Spring 2 Credits

22 hours of lecture

Second of 2-quarter sequence coordinating with PHAR 128 externship experience. Topics include work ethics, interpersonal communication, problem solving, and success in the work place emphasized. Components include group work, case study analysis, journal entries and a final written and oral project. Concurrent enrollment in PHAR 128 and written consent of Instructional Unit required.

SELECTED TOPICS

PHAR 280 Summer Fall Winter Spring 1 – 5 Credits

55 hours of lecture

Selected topics in pharmacy. Topics vary and course theme and content change to reflect new topics. Because the course varies in content, is is repeatable for credit. Specific topics are listed in the quarterly class schedule.

SPECIAL PROJECTS

PHAR 290 Summer Fall Winter Spring 1 – 15 Credits

Opportunity to plan, organize and complete special projects approved by the faculty of the department. Prerequisite: Consent of Instructional Unit required.

Philosophy

INTRODUCTION TO PHILOSOPHY

PHIL& 101 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Some of the great themes and major figures of Western philosophy. [HA, SE]

INTRODUCTION TO LOGIC

PHIL& 106 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Introduction to modern symbolic logic. Successful completion of MATH 093, or 095, or eligibility for college level math strongly recommended. [HA, SE]

INTRODUCTION TO ANCIENT AND MEDIEVAL PHILOSOPHY

PHIL 115 Fall 5 Credits

55 hours of lecture

An overview of ancient Greek philosophy from the pre-Socratic thinkers through Aristotle and beyond, and an introduction to medieval philosophical thought, especially that of Augustine and Aquinas. [HA, SE]

INTRODUCTION TO EARLY MODERN PHILOSOPHY

PHIL 116 Winter 5 Credits

55 hours of lecture

Introduction to some of the great thinkers and ideas of the sixteenth, seventeenth and eighteenth centuries. [HA, SE]

INTRODUCTION TO LATE MODERN PHILOSOPHY

PHIL 117 Spring 5 Credits

55 hours of lecture

Some of the major thinkers and ideas of the nineteenth and twentieth century. Emphasis on the great thinkers of the nineteenth century. [HA, SE]

INTRODUCTION TO CLASSICAL LOGIC

PHIL 160 5 Credits

55 hours of lecture

Introduction to traditional, Aristotelian logic. Includes formulation of propositions, logical inference, syllogisms (categorical, hypothetical, etc.), and fallacies. [HA, SE]

ETHICS

PHIL 240 Fall Spring 5 Credits

55 hours of lecture

Theories of morality from ancient times to the present, with attention to both practical and theoretical issues. The relationship between ethics and other areas of philosophy. [HA, SE]

PHILOSOPHY OF RELIGION

PHIL 251 Summer Winter 5 Credits

55 hours of lecture

Exploration of the nature of the religious experience, the difficulties inherent in the use of religious language, the classical proofs for the existence of God, the relationship between faith and reason, and the problem of evil.

SELECTED TOPICS

PHIL 280 1 – 3 Credits

33 hours of lecture

Varying topics in philosophy, as listed in the quarterly class schedule. May be repeated for credit. [HA, SE]

SPECIAL PROJECTS

PHIL 290 Summer Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Completion of two philosophy courses and consent of Instructional Unit. [HA, GE]

Physical Education

CARDIO CONDITIONING

PE 100 Summer Fall Winter Spring 1 Credit

22 hours of lab

Basic group exercise to music, primarily targeting cardiovascular conditioning.

FITNESS WALKING

PE 102 Summer Fall Winter Spring 1 – 2 Credits

44 hours of lab

Emphasis on walking programs, including interval training, power walking, and race walking. Walking technique and health benefits also discussed. [PE]

BENCH STEP AEROBICS

PE 103 Fall Winter Spring 1 Credit

22 hours of lab

Introduction to high-intensity/low impact exercise promoting overall body strength and cardiovascular fitness that involves stepping up and down on a bench step platform to music. [PE]

CIRCUIT FITNESS

PE 104 Summer Fall Winter Spring 1 – 2 Credits

44 hours of lab

An individualized systematic approach to cardiovascular fitness through the use of multiple weight machines and aerobic equipment. Pre and post fitness assessments conducted. Students must earn 2 credits of PE 104 before advancing to PE 105. [PE]

CIRCUIT FITNESS

PE 105 Summer Fall Winter Spring 1 – 2 Credits

44 hours of lab

An individualized systematic approach to cardiovascular fitness through the use of multiple weight machines and aerobic equipment. Pre and post fitness assessments conducted. Prerequisite: Two credits of PE 104. [PE]

CIRCUIT FITNESS

PE 106 Summer Fall Winter Spring 1 – 2 Credits

44 hours of lab

An individualized systematic approach to cardiovascular fitness through the use of multiple weight machines and aerobic equipment. Pre and post fitness assessments conducted. Prerequisite: 2 credits of PE 105. [PE]

SPEED, AGILITY, AND QUICKNESS

PE 107 Fall Winter Spring 1 Credit

22 hours of lab

Focuses on biomechanics of running, development of speed, agility and personal quickness. Learning of drills and enhancement of skills to improve personal performance. [PE]

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INDEPENDENT FITNESS PROGRAM

PE 108 Summer Fall Winter Spring 1 – 2 Credits

44 hours of lab

A self-paced conditioning course for the motivated, self-directed student. Design, implement and document a goal-oriented fitness program with instructor advice and approval. Areas of concentration will be the three components of fitness: Cardiovascular endurance, muscular strength and muscular flexibility training. [PE]

MARTIAL ARTS: TAE KWON DO

PE 109A Fall Winter Spring 1 Credit

22 hours of lab

Tae Kwon Do is a Korean martial art that predominately focuses on kicking. Students must purchase a uniform for this class.

MARTIAL ARTS: KUNG FU

PE 109B Fall Winter Spring 1 Credit

22 hours of lab

Kung Fu is a Chinese method of self-defense. Covers history and philosophy, basic strikes, blocks, and escapes from various attacks and grabs. Students must purchase a uniform for this class.

MARTIAL ARTS: BRAZILIAN JIU-JITSU

PE 109C Fall Winter Spring 1 Credit

22 hours of lab

Jiu-Jitsu is a Brazilian sport of self-defense that uses grappling, wrestling, and locking techniques. Students must purchase a uniform for this class.

MARTIAL ARTS: JUDO

PE 109D Fall Winter Spring 1 Credit

22 hours of lab

Judo is a Japanese martial art focused on throwing, where students learning falling techniques, basic takedowns, escapes, and joint locks. Students must purchase a uniform for this class.

SELF DEFENSE

PE 110 Fall Winter Spring 1 Credit

22 hours of lab

This course is designed to teach the student basic self-defense techniques as well as situational awareness through class participation and discussion. [PE]

CORE CONDITIONING

PE 111 Fall Winter Spring 1 Credit

22 hours of lab

Focus on engaging the core area to improve posture and muscular endurance for everyday movement.

TONE AND TRIM

PE 112 Fall Winter Spring 1 Credit

22 hours of lab

Stretching exercise class (with music) to improve muscle tone, posture, flexibility and general fitness with emphasis on increased abdominal and back strength. [PE]

TOTAL BODY CONDITIONING

PE 113 Fall Winter Spring 2 Credits

44 hours of lab

Students will use fitness center equipment and a variety of conditioning activities to develop cardiovascular endurance, muscular strength, and flexibility. Course will emphasize how to structure an exercise plan to meet individualized goals. [PE]

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WEIGHT TRAINING - GENERAL I

PE 115 Summer Fall Winter Spring 1 Credit

22 hours of lab

Strength development through basic exercise and lift techniques. Beginning theories and techniques in fitness conditioning, body building, and power lifting. [PE]

FITNESS CENTER BASICS

PE 116 Fall Winter Spring 1 Credit

22 hours of lab

Introduction to the fundamental skills necessary to implement a physical activity program in a fitness center setting. Students develop and implement an exercise program appropriate to their fitness level and individual needs using a variety of cardiovascular and resistance machines. [PE]

WEIGHT TRAINING - POWER LIFTING I

PE 117 Fall Winter Spring 2 Credits

44 hours of lab

Conditioning class for students interested in strength improvement through heavy resistance training. The Olympic lifts along with numerous power/speed lifts will be performed for personal improvement in various fitness parameters. [PE]

CARDIO KICKBOXING – BEGINNING

PE 120 Fall Winter Spring 1 Credit

22 hours of lab

Combination of aerobic dance and martial arts, including American Kickboxing and Thai Boxing, in a format that increases cardiovascular endurance, sharpens reflexes and enhances power. [PE]

YOGA

PE 121 Summer Fall Winter Spring 1 Credit

22 hours of lab

Introduction to hatha yoga (physical yoga) with an emphasis on postures, breathing and body-mind centering. [PE]

T'AI CHI

PE 122 Summer Fall Winter Spring 1 Credit

22 hours of lab

T'ai Chi is an ancient form of mental and spiritual discipline developed in China. The movements of the t'ai chi form are slow and deliberate, helping with relaxation, focus, strengthening, and balance. [PE]

HEALTHY HEART - BEGINNING

PE 123 Fall Winter Spring 1 Credit

22 hours of lab

Cardiac prevention and rehabilitation exercise: designed to promote awareness and practice of exercise, nutrition, and stress. Skills in dealing with pre- and post-cardiac trauma. [GE]

PILATES - BEGINNING

PE 124 Summer Fall Winter Spring 1 Credit

22 hours of lab

Methods of conditioning covers the basic principles and exercise technique needed to increase core strength and stabilization, improve coordination, balance, postural awareness, and increase muscular flexibility and stamina. [PE]

BOOT CAMP - BEGINNING

PE 129 Fall Winter Spring 2 Credits

44 hours of lab

Introduction to physical fitness for military purposes; emphasis on basic conditioning and discipline. This course is open to all students. [PE]

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BALLET – BEGINNING

PE 130 Fall Winter Spring 1 Credit

22 hours of lab

Beginning ballet technique including barre and centre work. [PE]

BALLROOM DANCE: SMOOTH

PE 131A Summer Fall Winter Spring 1 Credit

22 hours of lab

Fundamentals, forms and pattern of ballroom dance. Develop confidence through practice with a variety of partners. Smooth style dances include waltz, tango, fox trot, quick step and Viennese waltz.

BALLROOM DANCE: LATIN

PE 131B Summer Fall Winter Spring 1 Credit

22 hours of lab

Fundamentals, forms and pattern of ballroom dance. Develop confidence through practice with a variety of partners. Latin dance sections will include: mambo, cha cha, rhumba, samba, and salsa.

BALLROOM DANCE: LATIN OR SMOOTH

PE 131C Summer Fall Winter Spring 1 Credit

22 hours of lab

Fundamentals, forms and pattern of ballroom dance. Develop confidence through practice with a variety of partners. Smooth style dances include waltz, tango, fox trot, quick step and Viennese waltz. Latin dances include: mambo, cha cha, rhumba, samba, salsa.

WORLD DANCES

PE 132 1 – 3 Credits

66 hours of lab

Introduction to one particular style of cultural dance and an appreciation of its cultural and geographical background. Topics vary, but may include Irish Dance, Hula Dance, African Dance, Bollywood or other folk dancing specialty.

WORLD DANCES: HULA

PE 132A 1 Credit

22 hours of lab

Focus on Hawaiian traditional dance forms.

WORLD DANCES: AFRICAN

PE 132B 1 Credit

22 hours of lab

Introduction to African dance, which focuses on drumming, rhythm, and music predominantly of West Africa.

WORLD DANCES: BOLLYWOOD

PE 132C 1 Credit

22 hours of lab

Introduction to dances of India, sometimes referred to as Indian Fusion. Dance styles focus on semi-classical, regional, folk, bhangra, and everything in between--up to westernized contemporary Bollywood dance.

CONTEMPORARY DANCE

PE 133 Fall 1 Credit

22 hours of lab

Fundamentals and techniques of modern dance and rhythmic self-expression. [PE]

MODERN JAZZ

PE 134 Fall Winter Spring 1 Credit

22 hours of lab

Beginning Modern Jazz technique. Students will study fundamental moves and learn a routine. [PE]

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SWING DANCE - BEGINNING

PE 135 Fall Winter Spring 1 Credit

22 hours of lab

Basic patterns and partnering skills for East Coast Swing (jive), West Coast Swing (hustle), and Lindy Hop. Course covers dance technique, partnering skills, patterns and music identification. [PE]

HIP-HOP DANCE

PE 137 Fall Winter Spring 1 Credit

22 hours of lab

Introduction to basic dance techniques, floor combinations, balance, and longer dance routines of hip hop dance. Develop confidence and skill through practice. [PE]

BELLY DANCE

PE 139 1 Credit

22 hours of lab

Gain knowledge of movement and dance steps, culture and history, various rhythms, country of origin and related movements. Egyptian music is the predominant focus.

BASKETBALL

PE 140 Fall Winter Spring 1 Credit

22 hours of lab

Ball handling, shooting, passing, offensive and defensive techniques, rules, strategy and competitive play. [PE]

BOWLING

PE 143 1 Credit

22 hours of lab

Techniques, styles of play, rules of courtesy, scoring and competitive games. [PE]

FENCING - FOIL

PE 147 Fall Winter Spring 1 Credit

22 hours of lab

Movement of fencing plus defense, offense, rules of bouting, officiating, and competition. [PE]

GOLF

PE 148 Fall Spring 1 Credit

22 hours of lab

Fundamentals and practice of golf. Focuses on full-swing fundamentals, chipping, pitching, putting, golf strategies, and rules of the game. [PE]

SOCCER

PE 150 Summer Fall Spring 1 Credit

22 hours of lab

Focus on individual offensive and defensive skills, game strategy, rules, and team tactics through the use of small-sided games and individual drills. [PE]

SPORTS CONDITIONING: SOCCER – WOMEN

PE 152A Summer Fall Winter Spring 1 – 3 Credits

66 hours of lab

Strength and cardiovascular conditioning in preparation for competing in intercollegiate women's soccer.

SPORTS CONDITIONING: SOCCER – MEN'S

PE 152B Summer Fall Winter Spring 1 – 3 Credits

66 hours of lab

Strength and cardiovascular conditioning in preparation for competing in intercollegiate men's soccer.

SPORTS CONDITIONING: CROSS COUNTRY

PE 152C Summer Fall Winter Spring 1 – 3 Credits

66 hours of lab

Strength and cardiovascular conditioning in preparation for competing in intercollegiate cross country.

SPORTS CONDITIONING: VOLLEYBALL

PE 152D Summer Fall Winter Spring 1 – 3 Credits

66 hours of lab

Strength and cardiovascular conditioning in preparation for competing in women's intercollegiate volleyball.

SPORTS CONDITIONING: BASKETBALL – WOMEN'S

PE 152E Summer Fall Winter Spring 1 – 3 Credits

66 hours of lab

Strength and cardiovascular conditioning in preparation for competing in intercollegiate women's basketball.

SPORTS CONDITIONING: BASKETBALL - MEN'S

PE 152F Summer Fall Winter Spring 1 – 3 Credits

66 hours of lab

Strength and cardiovascular conditioning in preparation for competing in intercollegiate men's basketball.

SPORTS CONDITIONING: SOFTBALL

PE 152G Summer Fall Winter Spring 1 – 3 Credits

66 hours of lab

Strength and cardiovascular conditioning in preparation for competing in women's intercollegiate softball.

SPORTS CONDITIONING: BASEBALL

PE 152H Summer Fall Winter Spring 1 – 3 Credits

66 hours of lab

Strength and cardiovascular conditioning in preparation for competing in intercollegiate baseball.

SPORTS CONDITIONING: TRACK AND FIELD

PE 152I Summer Fall Winter Spring 1 – 3 Credits

66 hours of lab

Strength and cardiovascular conditioning in preparation for competing in intercollegiate track and field.

TENNIS

PE 155 Summer Fall Spring 1 Credit

22 hours of lab

Basic tennis skills including grip, foot work, and strokes, such as backhand, forehand, volley and serve. The drop shot, lob, and overhead shots will be introduced, as will singles and doubles strategies, rules, scoring and court etiquette. [PE]

VOLLEYBALL

PE 158 Fall Winter Spring 1 Credit

22 hours of lab

Introduction to the fundamental skills and strategies of organized volleyball. Volleyball requires development of the following individual skills: forearm pass, set, spike, block, dig, and serve. In addition, students will gain an understanding of elementary team strategies. Students will learn to practice effective communication with teammates. [PE]

ULTIMATE FRISBEE - BEGINNING

PE 163 Fall Spring 1 Credit

22 hours of lab

Ultimate Frisbee fundamentals: individual skill development, rules, game play, and strategies. [PE]

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AQUA EXERCISE

PE 171 Fall Winter Spring 1 Credit

22 hours of lab

Conditioning through water exercises for students with or without swimming ability. Increased fitness with emphasis on stretching, flexibility, and abdominal and back strength. [PE]

SCUBA – BEGINNING

PE 173 Fall Spring 2 Credits

11 hours of lecture 22 hours of lab

Classroom lectures and discussion, swimming pool practice, and diving safety. Supervised experience in open water training optional at extra cost. Successful completion qualifies student for certification card. Prerequisite: Swimming ability. [PE]

SWIMMING – STROKE AND SKILL IMPROVEMENT

PE 175 Fall Winter Spring 1 Credit

22 hours of lab

For swimmer who is comfortable in deep water. Instruction and improvement of individual swimming strokes and survival skills. [PE]

SWIMMING - BEGINNING

PE 176 Fall Winter Spring 1 Credit

22 hours of lab

For non-swimmers and those who cannot swim 25 yards (one pool length). Opportunity to learn and improve individual swimming and water survival skills. Introduction to Red Cross swimming strokes with increased endurance and comfort in the water. [PE]

SWIMMING – ELEMENTARY

PE 177 Fall Winter Spring 1 Credit

22 hours of lab

Designed for beginning swimming students who wish to further their confidence in the water. Focus is on improving swimming proficiency and water survival skills. Beginning swimming skills that are emphasized include the crawl, breast stroke, and diving. [PE]

SWIM CONDITIONING - BEGINNING

PE 179 Fall Winter Spring 1 Credit

22 hours of lab

Emphasizes swimming fitness through lap swimming. Students will participate in a workout designed to address their particular fitness and skill level. Prerequisite: Ability to swim comfortably in the deep end of pool. [PE]

HIKING

PE 182 Summer Fall Spring 1 Credit

22 hours of lab

Experience hiking off-campus on designated trails. Course emphasizes basic safety and survival skills and practices low-impact hiking methods. [PE]

ROWING - BEGINNING

PE 183 Summer Fall Spring 1 Credit

22 hours of lab

Introduction to the sport of rowing. Includes basic technique and terminology, related water safety, development of strength, endurance and flexibility. Skills include rowing, strength training, cardiovascular training. Prerequisite: Must pass swimming test prior to first class. See Course Information Sheet outside OSC 206 for more information.

CARDIO CONDITIONING – INTERMEDIATE

PE 200 Summer Fall Winter Spring 1 Credit

22 hours of lab

Intermediate group exercise to music, primarily targeting cardiovascular conditioning. Prerequisite: PE 100.

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FITNESS WALKING – INTERMEDIATE

PE 202 Summer Fall Winter Spring 1 – 2 Credits

44 hours of lab

Intermediate fitness walking with emphasis on walking programs and technique. Prerequisite: PE 102. [PE]

BENCH STEP AEROBICS – INTERMEDIATE

PE 203 Fall Winter Spring 1 Credit

22 hours of lab

Intermediate high-intensity/low impact exercise program using a bench step promoting overall body strength and cardiovascular fitness. Prerequisite: PE 103. [PE]

SPEED, AGILITY, AND QUICKNESS

PE 207 Fall Winter Spring 1 Credit

22 hours of lab

Additional drills to further advance personal ability in running, quickness, speed. Includes advanced plyometric training techniques. Prerequisite: PE 107. [PE]

INDEPENDENT FITNESS – INTERMEDIATE

PE 208 Summer Fall Winter Spring 1 – 2 Credits

44 hours of lab

A continuation of the self-paced conditioning course, plus setting and implementing an additional personalized health related goal to be determined at the first individual meeting with instructor. Prerequisite: PE 108. [PE]

MARTIAL ARTS – INTERMEDIATE: TAE KWON DO

PE 209A Fall Winter Spring 1 Credit

22 hours of lab

A further examination into Tae Kwon Do, a Korean martial art that predominately focuses on kicking. Students must purchase a uniform for this class. Prerequisite: PE 109A.

MARTIAL ARTS -INTERMEDIATE: KUNG FU

PE 209B Fall Winter Spring 1 Credit

22 hours of lab

A further examination into Kung Fu, a Chinese method of self-defense. Covers history and philosophy, basic strikes, blocks, and escapes from various attacks and grabs. Students must purchase a uniform for this class. Prerequisite: PE 109B.

MARTIAL ARTS - INTERMEDIATE: BRAZILIAN JIU-JITSU

PE 209C Fall Winter Spring 1 Credit

22 hours of lab

A further examination into Jiu-Jitsu, a Brazilian sport of self-defense that uses grappling, wrestling, and locking techniques. Students must purchase a uniform for this class. Prerequisite: PE 109C.

MARTIAL ARTS - INTERMEDIATE: JUDO

PE 209D Fall Winter Spring 1 Credit

22 hours of lab

A further examination into Judo, a Japanese martial art focused on throwing, where students learn falling techniques, basic takedowns, escapes, and joint locks. Students must purchase a uniform for this class. Prerequisite: PE 109D.

CORE CONDITIONING – INTERMEDIATE

PE 211 Fall Winter Spring 1 Credit

22 hours of lab

Continuation of core conditioning techniques learned in PE 111. More advanced techniques introduced. Prerequisite: PE 111.

TONE AND TRIM – INTERMEDIATE

PE 212 Fall Winter Spring 1 Credit

22 hours of lab

Continuation of general fitness improvement through stretching, flexibility and toning exercise. Prerequisite: PE 112. [PE]

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TOTAL BODY CONDITIONING - INT

PE 213 Fall Winter Spring 2 Credits

44 hours of lab

Continuation of individualized conditioning program for developing the various components of fitness. Additional focus on learning principles of fitness to create personalized workouts. Prerequisite: PE 113. [PE]

TRIATHLON TRAINING

PE 214 Spring 2 Credits

44 hours of lab

Theoretical basis and competencies needed to safely and effectively train to complete a small triathlon will be explored. Activities include swimming, cycling and running along with a self-contained mini triathlon at course conclusion. Students must know how to swim and have their own bicycle.

WEIGHT TRAINING-GENERAL II

PE 215 Summer Fall Winter Spring 1 Credit

22 hours of lab

Continuation of individual lifting skills. Application of principles and theories to design personal workouts. Additional advanced lifts and techniques to be used and reviewed via videotapes. Prerequisite: PE 115. [PE]

FITNESS CENTER-INTERMEDIATE

PE 216 Fall Winter Spring 1 Credit

22 hours of lab

Introduction to the fundamental skills necessary to implement a physical activity program in a fitness center setting. Students develop and implement an exercise program appropriate to their fitness level and individual needs using a variety of cardiovascular and resistance machines. [PE]

WEIGHT TRAINING - POWER LIFTING II

PE 217 Fall Winter Spring 2 Credits

44 hours of lab

Continued application of skill and conditioning level. Application of workout design and training theory will also be covered and applied. Assessment of personal fitness parameters. Prerequisite: PE 117. [PE]

CARDIO KICKBOXING - INT

PE 220 Summer Fall Winter Spring 1 Credit

22 hours of lab

Continuation of PE 120. Intermediate students will demonstrate more advanced techniques and perform moves that require greater conditioning. Combines aerobic dance and martial arts, including American Kickboxing and Thai Boxing, in a format that increases cardiovascular endurance, sharpens reflexes and enhances power. Prerequisite: PE 120. [PE]

YOGA - INTERMEDIATE

PE 221 Summer Fall Winter Spring 1 Credit

22 hours of lab

A continuation of Hatha yoga technique. Students will practice more advanced postures and a deeper exploration of body-mind centering. Prerequisite: PE 121. [PE]

T'AI CHI – INTERMEDIATE

PE 222 Summer Fall Winter Spring 1 Credit

22 hours of lab

T'ai Chi is an ancient form of mental and spiritual discipline developed in China. The movements of the T'ai Chi form are slow, deliberate and focused. Intermediate T'ai Chi will introduce additional movements of the Yang Family Short Form, as well as encourage a deeper exploration of the principles introduced in Beginning T'ai Chi. Prerequisite: PE 122. [PE]

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HEALTHY HEART – INTERMEDIATE

PE 223 Fall Winter Spring 1 Credit

22 hours of lab

Continuation of exercise designed to lower risk for heart disease or to promote cardiac recovery. Study of healthy nutrition and stress reduction in the prevention of heart disease. Prerequisite: PE 123. [PE]

PILATES – INTERMEDIATE

PE 224 Summer Fall Winter Spring 1 Credit

22 hours of lab

Continuation of Pilates method of conditioning needed to increase core strength and stabilization, improve coordination, balance, postural awareness, and increase muscular flexibility and stamina. Prerequisite: PE 124. [PE]

BOOT CAMP - INTERMEDIATE

PE 229 Fall Winter Spring 2 Credits

44 hours of lab

Continuation of physical fitness for military purposes; emphasis on basic conditioning, discipline, and leadership. This course is open to all students. Prerequisite: PE 129. [PE]

BALLET - INTERMEDIATE

PE 230 Fall Winter Spring 1 Credit

22 hours of lab

Stronger techniques with more advanced steps and combinations including toe. Prerequisite: PE 130. [PE]

BALLROOM DANCE – INTERMEDIATE: SMOOTH

PE 231A Summer Fall Winter Spring 1 Credit

22 hours of lab

Fundamentals, forms and pattern of ballroom dance. Develop confidence through practice with a variety of partners. Smooth style dances include waltz, tango, fox trot, quick step and Viennese waltz. Prerequisite: PE 131A.

BALLROOM DANCE – INTERMEDIATE: LATIN

PE 231B Summer Fall Winter Spring 1 Credit

22 hours of lab

Fundamentals, forms and pattern of ballroom dance. Develop confidence through practice with a variety of partners. Latin dance sections will include: mambo, cha cha, rhumba, samba, and salsa. Prerequisite: PE 131B.

BALLROOM DANCE-INTERMEDIATE: SMOOTH-LATIN

PE 231C Summer Fall Winter Spring 1 Credit

22 hours of lab

Fundamentals, forms and pattern of ballroom dance. Develop confidence through practice with a variety of partners. Smooth style dances include waltz, tango, fox trot, quick step and Viennese waltz. Latin dances include: mambo, cha cha, rhumba, samba, salsa. Prerequisite: PE 131C.

CONTEMPORARY DANCE – INTERMEDIATE

PE 233 Fall Winter Spring 1 Credit

22 hours of lab

Intermediate techniques with opportunities for individual and group composition. Prerequisite: PE 133. [PE]

MODERN JAZZ - INTERMEDIATE

PE 234 Fall Winter Spring 1 Credit

22 hours of lab

Refinement of jazz technique and skill improvement. Prerequisite: PE 134. [PE]

SWING DANCE - INTERMEDIATE

PE 235 Fall Winter Spring 1 Credit

22 hours of lab

Continuation of PE 135. Includes partnering techniques such as leverage, posture, hovering, contrary body move-

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ment, rise and fall, and sway, and styling such as Cuban motion for Latin, spring action for East Coast Swing and heel leads for smooth. Introduction to opposite role as lead/follow. Prerequisite: PE 135. [PE]

HIP-HOP DANCE – INTERMEDIATE

PE 237 Fall Winter Spring 1 Credit

22 hours of lab

Intermediate study of dance techniques, floor combinations, balance, and longer dance routines of hip hop dance. Develop more confidence and skill through practice. Prerequisite: PE 137. [PE, SE, GE]

BELLY DANCE – INTERMEDIATE

PE 239 1 Credit

22 hours of lab

Continuation of the skills learned in PE 139, plus new variations and intermediate study of Middle Eastern Dance technique. Prerequisite: PE 139.

BASKETBALL – INTERMEDIATE

PE 240 Fall Winter Spring 1 Credit2

2 hours of lab

Continuation of skills, practice, and competitive play. Prerequisite: PE 140. [PE]

BOWLING – INTERMEDIATE

PE 243 1 Credit

22 hours of lab

Advanced instruction in all phases of bowling including league play and competition. Prerequisite: PE 143. [PE]

FENCING-FOIL, SABRE/EPEE

PE 246 Spring 1 Credit

22 hours of lab

Movements of all three weapons of fencing. Emphasizes defense, offense, rules, officiating and competition. [PE]

FENCING-FOIL INTERMEDIATE

PE 247 Fall Winter Spring 1 Credit

22 hours of lab

Skill refinement and advanced technique for experienced foil fencers. Prerequisite: PE 147. [PE]

GOLF – INTERMEDIATE

PE 248 Fall Spring 1 Credit

22 hours of lab

More advanced instruction on golf swing, short game, and golf strategies. [PE]

SOCCER - INTERMEDIATE

PE 250 Summer Fall Spring 1 Credit

22 hours of lab

Focus on learning and applying more advanced individual skills utilizing small and large groups to demonstrate more advanced team tactics. Prerequisite: PE 150. [PE]

SPORTS CONDITIONING INTERMEDIATE: SOCCER-WOMEN'S

PE 252A Summer Fall Winter Spring 1 – 3 Credits

66 hours of lab

Strength and cardiovascular conditioning in preparation for competing in women's intercollegiate soccer. Prerequisite: PE 152A.

SPORTS CONDITIONING INTERMEDIATE: SOCCER-MEN'S

PE 252B Summer Fall Winter Spring 1 – 3 Credits

66 hours of lab

Strength and cardiovascular conditioning in preparation for competing in men's intercollegiate soccer. Prerequisite: PE 152B.

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SPORTS CONDITIONING INTERMEDIATE: CROSS COUNTRY

PE 252C Summer Fall Winter Spring 1 – 3 Credits

66 hours of lab

Strength and cardiovascular conditioning in preparation for competing in intercollegiate cross country. Prerequisite: PE 152C.

SPORTS CONDITIONING INTERMEDIATE: VOLLEYBALL

PE 252D Summer Fall Winter Spring 1 – 3 Credits

66 hours of lab

Strength and cardiovascular conditioning in preparation for competing in women's intercollegiate volleyball. Prerequisite: PE 152D.

SPORTS CONDITIONING INTER: BASKETBALL-WOMEN'S

PE 252E Summer Fall Winter Spring 1 – 3 Credits

66 hours of lab

Basketball-women's: Strength and cardiovascular conditioning in preparation for competing in intercollegiate basketball. Prerequisite: PE 152E.

SPORTS CONDITIONING INTER: BASKETBALL-MEN'S

PE 252F Summer Fall Winter Spring 1 – 3 Credits

66 hours of lab

Strength and cardiovascular conditioning in preparation for competing in intercollegiate basketball. Prerequisite: PE 152F.

SPORTS CONDITIONING INTERMEDIATE: SOFTBALL

PE 252G Summer Fall Winter Spring 1 – 3 Credits

66 hours of lab

Strength and cardiovascular conditioning in preparation for competing in intercollegiate softball. Prerequisite: PE 152G.

SPORTS CONDITIONING INTERMEDIATE: BASEBALL

PE 252H Summer Fall Winter Spring 1 – 3 Credits

66 hours of lab

Strength and cardiovascular conditioning in preparation for competing in men's intercollegiate baseball. Prerequisite: PE 152H.

SPORTS CONDITIONING INTERMEDIATE: TRACK & FIELD

PE 252I Summer Fall Winter Spring 1 – 3 Credits

66 hours of lab

Strength and cardiovascular conditioning in preparation for competing in intercollegiate track and field. Prerequisite: PE 152I.

TENNIS – INTERMEDIATE

PE 255 Summer Fall Spring 1 Credit

22 hours of lab

Refinement of tennis skills, advanced game strategies and strokes. Observe and assist 100 level students. Prerequisite: PE 155. [PE]

VOLLEYBALL – INTERMEDIATE

PE 258 Fall Winter Spring 1 Credit

22 hours of lab

Further development of individual skills, team offenses and defenses learned in the beginning level PE 158. Prerequisite: PE 158. [PE]

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VOLLEYBALL – POWER

PE 260 Spring 1 Credit

22 hours of lab

Higher level of volleyball for the advanced player utilizing advanced skills and drills. Emphasis will be placed on advanced offensive and defensive strategies. Prerequisite: PE 158 and PE 258 or competitive experience. [PE]

ULTIMATE FRISBEE – INTERMEDIATE

PE 263 Fall Spring 1 Credit

22 hours of lab

Continuation of individual skill development, rules, game play, and strategies for the intermediate level ultimate Frisbee player. Prerequisite: PE 163. [PE]

AQUA EXERCISE – INTERMEDIATE

PE 271 Fall Winter Spring 1 Credit

22 hours of lab

Continuation of water exercise conditioning through stretching, flexibility, abdominal and back strength. Prerequisite: PE 171. [PE]

SWIMMING - INTERMEDIATE

PE 274 Fall Winter Spring 1 Credit

22 hours of lab

For the elementary swimmer who is comfortable in deep water and can swim 25 yards. Review Red Cross swimming strokes and safety skills while increasing strength and endurance. [PE]

SWIMMING-STROKE & SKILL IMPROVEMENT – INT

PE 275 Fall Winter Spring 1 Credit

22 hours of lab

For the intermediate swimmer. Continuation of individual swimming strokes and endurance. Prerequisite: PE 175. [PE]

SWIM CONDITIONING - INTERMEDIATE

PE 279 Fall Winter Spring 1 Credit

22 hours of lab

Continued practice of swimming fitness through lap swimming. Students will participate in a workout designed to address their particular fitness and skill level. Prerequisite: PE 179. [PE, SE, GE]

SELECTED TOPICS

PE 280 1 – 5 Credits

55 hours of lecture

The course focuses on selected topics in Physical Education. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. Individual topics are listed in the quarterly class schedules. [SE]

HIKING - INTERMEDIATE

PE 282 Summer Fall Spring 1 Credit

22 hours of lab

Continuation of hiking skills with focus on advanced safety and survival skills. Explore local hiking options, practice low-impact hiking methods on longer, more challenging hikes, and plan a future hike. [PE, SE, GE]

ROWING - INTERMEDIATE

PE 283 Summer Fall Spring 1 Credit

22 hours of lab

Further development of rowing technique, tactics and fitness development. Prerequisite: A grade of "S" in PE 183.

SPECIAL PROJECTS

PE 290 Summer Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

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CARE AND PREVENTION OF ATHLETIC INJURIES

PE 291 Spring 3 Credits

22 hours of lecture 22 hours of lab

Injury prevention in sports through understanding of conditioning, bio-mechanics, taping, bandaging, nutrition, immediate post-injury care, and rehabilitation of sports injury. [SE]

MENTAL PERFORMANCE IN SPORTS

PE 293 Fall 3 Credits

33 hours of lecture

Theories and strategies of mental preparation for improvement in individual and team performances. Discussion topics include: personality, motivational model, time management/goal setting techniques. Coach profiles, team communication, steps to team building, stress management and performance anxiety and imagery will also be covered. A review of current literature and the case analysis method will provide opportunity for individual and group application of presented materials. [SE]

SPORT IN SOCIETY

PE 294 Spring 3 Credits

33 hours of lecture

Explores the relationship which exists between the multifaceted world of sport and society. Discussion topics include: racism, gender in equality, aggression, deviancy, media/commercialism, as well as youth sports. Discussion will also include the concept of play, competition and the rapid development of youth sport programs and their impact on the family unit. [SE]

Physical Science

GENERAL PHYSICAL SCIENCE

PHSC 101 Fall Winter Spring 5 Credits

44 hours of lecture 22 hours of lab

How the world around us behaves depends on the nature of matter and energy. Physical laws are presented in this course that describe the interaction of matter and energy. These laws are used to help explain experiences from daily life. For the non-science major, with little or no science background. [NS, SE]

GENERAL PHYSICAL SCIENCE

PHSC 102 Summer Fall Winter Spring 5 Credits

44 hours of lecture 22 hours of lab

How matter reacts and its application in a technical society. Simple chemical molecules are discussed as are the origin, nature, and changing features of the earth. For non-science majors with little or no science background. No prerequisites are required. [NS, SE]

INTRODUCTION TO DESIGN

PHSC 104 Fall Winter Spring 5 Credits

33 hours of lecture 44 hours of lab

Introduction to the engineering method of problem solving through guided Engineering design projects. Focus on developing group skills, understanding the effects of different learning styles, producing strategies for innovation, and fostering creativity in problem solving.

OUR CHEMICAL WORLD

PHSC 106 Fall Winter Spring 3 Credits

33 hours of lecture

Introduction to basic chemical concepts and discussion of selected applications in the world around us. [NS, SE]

SCIENCE OF SCI FI

PHSC 110 Fall Winter 5 Credits

33 hours of lecture 44 hours of lab

Introduction to the Scientific Method and the principles of Physics, and Chemistry though the investigation of Sci-

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ence Fiction. Learn to distinguish between science and pseudoscience. Through the investigation of science fiction TV shows and films we will establish and investigate both accepted scientific principles and examine and invalidate others. Prerequisite: A grade of "C" or better in MATH 089 or 090, or placement in MATH 091 or higher.

COOPERATIVE WORK EXPERIENCE

PHSC 199 1 – 3 Credits

99 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit. [GE]

SELECTED TOPICS

PHSC 280 1 – 5 Credits

55 hours of lecture

The course focuses on selected topics in Physical Sciences. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. Individual topics are listed in the quarterly class schedule.

Physics

APPLIED PHYSICS

PHYS 090 Winter 5 Credits

44 hours of lecture 22 hours of lab

Topics include force, motion, torque, energy, power, friction, electricity, magnetism, mechanical advantage, fluids, metric measurement, elasticity, heat, temperature, heat transfer, and heat engines. Open to all students seeking an Applied Science degree.

PHYSICS CALCULATIONS

PHYS 091 Fall Winter 1 Credit

11 hours of lecture

Methods of problem-solving in physics. Concurrent enrollment in PHYS 101 required.

PHYSICS CALCULATIONS

PHYS 092 Winter Spring 1 Credit

11 hours of lecture

Methods of problem-solving in physics. Concurrent enrollment in PHYS& 122 required.

PHYSICS CALCULATIONS

PHYS 093 Fall Spring 1 Credit

11 hours of lecture

Methods of problem-solving in physics. Concurrent enrollment in PHYS& 123 required.

PHYSICS CALCULATIONS

PHYS 094 Fall Winter 1 Credit

11 hours of lecture

Methods of problem-solving in physics. Concurrent enrollment in PHYS& 221 required.

PHYSICS CALCULATIONS

PHYS 095 Winter Spring 1 Credit

11 hours of lecture

Methods of problem-solving in physics. Concurrent enrollment in PHYS& 222 required.

PHYSICS CALCULATIONS

PHYS 096 Fall Spring 1 Credit

11 hours of lecture

Methods of problem-solving in physics. Concurrent enrollment in PHYS& 223 required.

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PHYSICS NON-SCI MAJORS

PHYS& 100 Winter Spring 4 Credits

44 hours of lecture

Introduction to basic physics concepts for non-science majors, technical students, or students who desire a PHYS& 121 or 221 preparatory course. Prerequisite: MATH 090 or equivalent. [NS, SE]

GENERAL PHYSICS I

PHYS& 121 Fall Winter Spring 5 Credits

44 hours of lecture 33 hours of lab

Physical principles of motion, equilibrium, dynamics, gravity, work energy, momentum, and fluids. Recommended for students in medicine, dentistry, pharmacy, physical therapy, forestry and the life sciences. Part of a three-quarter sequence offered each year beginning fall and winter quarters. Concurrent enrollment in PHYS 091 required. Prerequisite: A grade of "C" or better in MATH 103 or equivalent or concurrent enrollment in MATH 111. [NS, SE]

GENERAL PHYSICS II

PHYS& 122 Winter Spring 5 Credits

44 hours of lecture 33 hours of lab

Fundamental physical principles of sound, fluids, heat, thermodynamics, electricity, and magnetism. Second of a three-quarter sequence. Concurrent enrollment in PHYS 092 and 122 Lab required. Prerequisite: PHYS& 121 (or PHYS 101) or consent of Instructional Unit. [NS, SE]

GENERAL PHYSICS III

PHYS& 123 Fall Spring 5 Credits

44 hours of lecture 33 hours of lab

Topics in electricity, magnetism, atomic and nuclear physics, and optics. Third of a three-quarter sequence. Concurrent enrollment in PHYS 093 required. Prerequisite: PHYS 102 or consent of Instructional Unit. [NS, SE]

COOPERATIVE WORK EXPERIENCE

PHYS 199 Fall Winter Spring 1 – 3 Credits

99 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit. [GE]

ENGINEERING PHYSICS

PHYS& 221 Fall Winter Spring 5 Credits
44 hours of lecture 33 hours of lab

Classical physics topics in mechanics. For students majoring in engineering, chemistry, physics, geology, or mathematics. Beginning course of a three-quarter sequence offered each year starting fall and winter quarters. Completion of, or concurrent enrollment in MATH& 152 (or MATH 211), and concurrent enrollment in PHYS 094 required. [NS, SE]

ENGINEERING PHYSICS

PHYS& 222 Winter Spring 5 Credits

44 hours of lecture 33 hours of lab

Physics topics in fluids, heat, thermodynamics, sound, electricity, and magnetism. Second quarter of a three-quarter sequence beginning with PHYS 201. Concurrent enrollment in PHYS 095 required. Prerequisite: A grade of "C" or better in PHYS& 221 (or PHYS 201). [NS, SE]

ENGINEERING PHYSICS

PHYS& 223 Fall Spring 5 Credits

44 hours of lecture 33 hours of lab

Topics in electricity, magnetism, atomic and nuclear physics, and optics. Third quarter of a three-quarter sequence beginning with PHYS 221. Concurrent enrollment in PHYS 096 required. Prerequisite: A grade of "C" or better in PHYS& 222 (or PHYS 202). [NS, SE]

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SPECIAL PROJECTS

PHYS 290 Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE, NS]

Political Science

AMERICAN NATIONAL GOVERNMENT AND POLITICS

POLS 111 Fall Winter Spring 5 Credits

55 hours of lecture

The institutions, structures, and processes that affect the course of politics and public policy at the national level of American government. [SE, SS]

STATE AND LOCAL GOVERNMENT

POLS 131 Spring 5 Credits

55 hours of lecture

The institutions, structures, and political processes at the state and local levels of government in our federal system. [SE, SS]

SURVEY OF STATE AND LOCAL GOVERNMENT

POLS 141 Fall 3 Credits

33 hours of lecture

The structure and operation of state and local government, stressing the politics and other processes involved in the making of public policy at these levels of government. Designed for paralegal students. [SE, SS]

MODEL UNITED NATIONS

POLS 151 Fall Winter Spring 2 Credits

22 hours of lecture

The United Nations and its functions, current problems, and world reactions to them. Required for participation in the Model United Nations program. Entering students first register for 151, then subsequent sequence numbers for up to a total of 6 quarters. [SE, SS]

MODEL UNITED NATIONS

POLS 152 Fall Winter Spring 2 Credits

22 hours of lecture

Continuation of POLS 151. Required for participation in Model United Nations activities. [SE, SS]

MODEL UNITED NATIONS

POLS 153 Fall Winter Spring 2 Credits

22 hours of lecture

Continuation of POLS 152. Required for participation in Model United Nations activities. [SE, SS]

WORLD WITHOUT WAR

POLS 161 Spring 3 Credits

33 hours of lecture

Seminar exploring psychological, emotional, political, economic, and other causes of war. Emphasis on search for peace and kinds of peace research currently being conducted in the world. [SE]

SURVEY OF THE UNITED STATES CONSTITUTION

POLS 171 Spring 3 Credits

33 hours of lecture

An examination of the role of the Constitution and judicial interpretation in American politics and public policy. Primary emphasis is on the United States Supreme Court. Specific topics will include civil rights, civil liberties, economic regulation and property rights, and criminal justice. Prerequisite: POSC 111 or SOC 110 or HIST 131. [SE]

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COOPERATIVE WORK EXPERIENCE

POLS 199 1 – 3 Credits

99 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit.

INTERNATIONAL RELATIONS

POLS& 203 Summer Fall Winter Spring 5 Credits

55 hours of lecture

World politics, concepts and theories from the post-World War II period. Processes of power, foreign policy, development and trends in the current international scene analyzed. Conflict and conflict resolution and control. [SE, SS]

THE GEOPOLITICS OF THE MIDDLE EAST

POLS 220 Summer Spring 5 Credits

55 hours of lecture

Geo-political survey of the Middle East, including interrelationships between the physical, economic and political geography of this region, the impact of geography on politics and political issues within the nations of this region, the corresponding impact of politics and political issues on geography and on the lives of the people living in this region, as well as the resulting diversity of cultures, beliefs, perceptions, challenges and issues among the people of this region. This course will also examine the importance and impact of the Middle East on the rest of the world, as well as the impact and influence of the rest of the world on the Middle East. Credit not allowed for both POLS 220 and GEOG 220. [SE]

THE GEOPOLITICS OF AFRICA

POLS 221 Summer Spring 5 Credits

55 hours of lecture

Geo-political survey of Africa, including interrelationships between the physical, economic and political geography of this region, the impact of geography on politics and political issues within the nations of this region, the corresponding impact of politics and political issues on geography and on the lives of the people living in this region, as well as the resulting diversity of cultures, beliefs, perceptions, challenges and issues among the people of this region. This course will also examine the importance and impact of Africa on the rest of the world, as well as examine the impact and influence of the rest of the world on Africa. Credit not allowed for both POLS 221 and GEOG 221. [SE]

THE GEOPOLITICS OF CHINA, JAPAN & EAST ASIA

POLS 222 Summer Spring 5 Credits

55 hours of lecture

Geo-political survey of China, Japan and East Asia, including interrelationships between the physical, economic and political geography of this region, the impact of geography on politics and political issues within the nations of this region, the corresponding impact of politics and political issues on geography and on the lives of the people living in this region, as well as the resulting diversity of cultures, beliefs, perceptions, challenges and issues among the people of this region. This course will also examine the importance and impact of China, Japan and East Asia on the rest of the world, as well as examine the impact and influence of the rest of the world on China, Japan and East Asia. Credit not allowed for both POLS 222 and GEOG 222. [SE]

THE GEOPOLITICS OF SOUTH AND CENTRAL ASIA

POLS 223 Summer Spring 5 Credits 55 hours of lecture

Geo-political survey of South and Central Asia, including interrelationships between the physical, economic and political geography of this region, the impact of geography on politics and political issues within the nations of this region, the corresponding impact of politics and political issues on geography and on the lives of the people living in this region, as well as the resulting diversity of cultures, beliefs, perceptions, challenges and issues among the the people of this region. This course will also examine the importance and impact of South and Central Asia on the rest of the world, as well as examine the impact and influence of the rest of the world on South and Central Asia. Credit not allowed for both POLS 223 and GEOG 223. [SE]

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ENVIRONMENTAL POLITICS

POLS 231 Spring 5 Credits

55 hours of lecture

Examines the relationship between industrial civilization and the natural environment by exploring underlying ecological philosophies and the economic and political processes by which environmental decisions are made. Emphasis on critical thinking and evaluating alternative points of view. Prerequisite: POLS 111, 131 or POLS& 203 (or POSC 111, 131 or 211), or consent of Instructional unit.

MODEL UNITED NATIONS

POLS 251 Fall Winter Spring 2 Credits

22 hours of lecture

Continuation of POLS 153. Required for participation in Model United Nations activities. [SE, SS]

MODEL UNITED NATIONS

POLS 252 Fall Winter Spring 2 Credits

22 hours of lecture

Continuation of POLS 251. Required for participation in Model United Nations activities. [SE, SS]

MODEL UNITED NATIONS

POLS 253 Fall Winter Spring 2 Credits

22 hours of lecture

Continuation of POLS 252. Required for participation in Model United Nations activities. [SE, SS]

SELECTED TOPICS

POLS 280 Summer Fall Winter Spring 1 – 5 Credits

55 hours of lecture

This course focuses on selected topics in political science. Topics vary and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. [SE]

SPECIAL PROJECTS

POLS 290 Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

Power Utilities

BASIC ELECTRICAL CONCEPTS

PWR 101 Fall 7 Credits

55 hours of lecture 44 hours of lab

Fundamentals of direct current and alternating current circuits, components and devices. Includes power laboratory assignments. Concurrent enrollment in PWR 150. Prerequisite: A grade of "C" or better in ENGL 098 and MATH 090, or equivalent placement score.

CAREER EXPLORATION FOR THE POWER UTILITIES

PWR 150 Fall 1 Credit

11 hours of lecture

Introduction to various technical career tracks available within the electric power industry. Topics include job responsibilities involved with careers in the power generation, electric transmission and distribution areas.

INTRODUCTION TO THE POWER UTILITIES INDUSTRY

PWR 151 Winter 7 Credits

55 hours of lecture 44 hours of lab

Introduction to the electric power industry, its history and the development of our country's electric system. Students will learn about generation, transmission, and distribution or electric energy and the development of local, regional and national energy grids. Concurrent enrollment in PWR 152 required. Prerequisite: A grade of "C" or better in PWR 101; and a grade of "C" or better in MATH 090 or placement in MATH 095.

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TOOLS OF THE TRADE

PWR 152 Winter 2 Credits

44 hours of lab

Introduction to the tools commonly used in the electric power utilities trades and safety practices in their operation. Activities will include tours to local utility facilities. Concurrent enrollment in PWR 151. Prerequisite: A grade of "C" or higher in PWR 101 and MATH 098.

ELECTRICAL SAFETY

PWR 153 Winter 1 Credit

11 hours of lecture

Introduction to the general safety practices and information employees need while working in any segment of the electrical industry. Materials will include federal safety regulations and safe operating practices in the technical crafts of the industry. Concurrent enrollment in PWR 151. Prerequisite: A grade of "C" or better in PWR 101 or MATH 098.

ELECTRICAL SYSTEM COMPONENTS

PWR 154 Spring 7 Credits

55 hours of lecture 44 hours of lab

Examination of practical considerations and applications of the generation, transmission, and distribution systems of local, regional and national energy grids. Concurrent enrollment in PWR 155 and 156. Prerequisite: A grade of "C" or better in PWR 151, 152, and 153, ENGL 098 and MATH 090, or equivalent placement score.

PRINT READING FOR THE UTILITY INDUSTRY

PWR 155 Spring 2 Credits

22 hours of lecture

Introduction to electrical utility blueprint reading which defines the physical and electrical arrangements of equipment including power plants, substations, transmission lines, distribution lines and customer service facilities. These documents are developed by designers to guide construction of facilities and are used by operating personnel to maintain, repair and modify utility equipment. Concurrent enrollment in PWR 154, or consent of Instructional Unit. Prerequisite: A grade of "C" or better in PWR 151, or consent of Instructional Unit.

ELECTRICAL SYSTEM TROUBLE SHOOTING

PWR 156 Spring 2 Credits

11 hours of lecture 22 hours of lab

Electrical System Troubleshooting is a key skill required of many electrical craft personnel. The course includes analysis of circuit diagrams and assembly and troubleshooting of electric control systems. Concurrent enrollment in PWR 154. Prerequisite: A grade of "C" or better in PWR 151.

COOPERATIVE WORK EXPERIENCE

PWR 199 Summer Fall Winter Spring 1 – 6 Credits

198 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Written consent of the Power Utilites Program is required. Prerequisite: A grade of "C" or better or concurrent enrollment in PWR 154, PWR 155 and PWR 156.

ELECTRIC UTILITY SYSTEM PROTECTION

PWR 201 Spring 3 Credits

27 hours of lecture 11 hours of lab

Basic electric utility protective relay systems beginning with electromechanical relays and advancing to modern microprocessor relays. Introduction to Supervisory Control and Data Acquisition systems and revenue metering. Prerequisite: Completion of the Power Utilities Technology Certificate of Proficiency. Students with equivalent industry experience may enroll in the class with permission of the instructor.

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SELECTED TOPICS

PWR 280

Summer Fall Winter Spring

1 - 6 Credits

66 hours of lecture

Course focuses on selected topics in Electronics. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. [GE]

Professional Technical Writing

APPLIED TECHNOLOGY WRITING DESCRIPTIONS

PTWR 094 1 Credit

11 hours of lecture

Basic skills for organizing and writing technical descriptions for Applied Technology courses; identifying and describing objects or events and exploring best practices and procedures for practical scenarios. Concurrent enrollment in an Applied Technology program. Prerequisite: ASSET Writing Test Score 36-38, placement in ENGL 097, or "C" or better in DVED 094.

APPLIED TECHNOLOGY WRITING ANALYSES

PTWR 095 1 Credit

11 hours of lecture

Basic skills for organizing and explaining causes and effects as taught in Applied Technology classes; writing concise reports under timed conditions that reflect the results of research, critical thinking and problem-solving. Concurrent enrollment in an Applied Technology program. Prerequisite: ASSET Writing Test Score 36-38, placement in ENGL 097, or "C" or better in DVED 094.

APPLIED TECHNOLOGY WRITING PROCEDURES

PTWR 096 1 Credit

11 hours of lecture

Basic skills for organizing and writing technical descriptions of processes or procedures for Applied Technology courses; writing concise reports under timed conditions that reflect the results of research, critical thinking and problem-solving. Concurrent enrollment in an Applied Technology program. Prerequisite: ASSET Writing Test Score 36-38, placement in ENGL 097, or "C" or better in DVED 094.

APPLIED TECHNOLOGY WRITING REPORTS

PTWR 097 1 Credit

11 hours of lecture

Basic skills for person-to-person research and communication in Applied Technology courses; writing concise reports under timed conditions that reflect the results of research, critical thinking and problem-solving. Concurrent enrollment in an Applied Technology program. Prerequisite: ASSET Writing Test Score 36-38, placement in ENGL 097, or "C" or better in DVED 094.

APPLIED TECHNOLOGY WRITING APPLICATIONS

PTWR 098

11 hours of lecture

Basic skills for seeking and identifying potential employers, analyzing published notices of employment opportunities, writing and revising letters of applications and preparing appropriate resumes of professional experience. Designed to provide tangible tools related to gaining employment. Concurrent enrollment in an Applied Technology program. Prerequisite: ASSET Writing Test Score 36-38, placement in ENGL 097, or "C" or better in DVED 094.

FUNDAMENTALS OF TECHNICAL WRITING

PTWR 099 3 Credits

33 hours of lecture

Fundamental skills in workplace written communication: focus on resumes, instructions, letters, memos, reports; methods of writing clear, concise documents for technical audiences and purposes. Prerequisite: ASSET Writing Test Score 39-44 or ENGL 097.

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Psychology

GENERAL PSYCHOLOGY

PSYC& 100 Summer Fall Winter Spring 5 Credits

55 hours of lecture

The scientific study of behavior and mental processes including research methods, psychobiological processes, learning, memory, psychological disorders, psychotherapy, and other topics to be determined by the instructor. Prerequisite: COMPASS reading score of 85 or higher, or a cumulative GPA of 2.0 or higher. [SE, SS]

COOPERATIVE WORK EXPERIENCE

PSYC 199 Summer Fall Winter Spring 1 – 5 Credits

165 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit. [GE]

LIFESPAN PSYCHOLOGY

PSYC& 200 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Principles and theories of human growth and development; the interaction of psychological, biological, and social factors throughout the life span. Prior completion of PSYC 101 recommended. [SE, SS]

SOCIAL PSYCHOLOGY

PSYC 203 5 Credits

55 hours of lecture

Effects of social environment and interpersonal processes on both individual and collective behaviors. Socialization, impression formation and management, attitude formation and change, prejudice, aggression, altruism, leadership, power, conformity, environmental psychology, and other topics. Prerequisite: PSYC& 100 (or PSYC 101). [SE, SS]

PSYCHOLOGY: SELECTED TOPICS

PSYC 280 1 – 3 Credits

33 hours of lecture

Selected topics in psychology as listed in the quarterly class schedule. May be repeated for credit. Prerequisite: PSYC& 100 (or PSYC 101) or consent of instructional Unit. [SE]

SPECIAL PROJECTS

PSYC 290 Summer Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

Reading

BASIC READING

READ 081 Fall Winter 4 Credits

44 hours of lecture

For students planning on continuing in college. Development of reading skills including vocabulary and overall comprehension. Prerequisites: Recommending score on placement test or written consent of Instructional Unit.

READING FUNDAMENTALS

READ 082 Fall Winter 4 Credits

44 hours of lecture

Improvement of academic reading skills through instruction and practice in comprehension, vocabulary building, retention strategies, textbook reading and notetaking skills along with an introduction to the basic elements for the development and enhancement of the enjoyment of reading. Prerequisite: Recommending score on placement test or written consent of Instructional Unit.

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ACADEMIC READING

READ 083 Fall Winter Spring 4 Credits

44 hours of lecture

Analysis and interpretation of textbooks, short stories and other sources. Development of information-gathering, vocabulary and rate techniques, and use of graphs and charts. Prerequisite: Recommendation on placement test or written consent of Instructional Unit.

CRITICAL READING

READ 087 Fall Winter Spring 4 Credits

44 hours of lecture

Development of advanced comprehension skills such as recognizing the author's tone, interpreting figuration language, distinguishing fact and opinion, recognizing persuasive language, and evaluating the soundness of an argument. Prerequisite: Recommending score on placement test or written consent of Instructional Unit.

COLLEGE READING

READ 100 Fall Winter Spring 4 Credits

44 hours of lecture

Develops skills for more comprehensive and efficient college level reading. Emphasis is on the improvement of comprehension and reading rate, the development of good reading habits, critical and analytical skills, study-reading techniques, and vocabulary enhancements. Prerequisite: College reading level on placement test or recommendation of instructor. [GE]

Sociology

INTRO TO SOCIOLOGY

SOC& 101 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Introduces the sociological perspectives that explain human interaction, social institutions, and social change. Examines these social phenomena from a variety of sociological perspectives, including the functionalist, conflict, and symbolic-interactionist. Prerequisite: COMPASS reading score of 85 or higher, or a cumulative GPA of 2.00 or higher. [SE, SS]

MARRIAGE AND FAMILY EXPERIENCES IN THE U.S.

SOC 121 3 Credits

33 hours of lecture

Marriage and family experiences will be examined along with other social institutions that affect the marriage and family relationships in a changing U.S. culture. [SE, SS]

RACE AND ETHNICITY IN THE U.S.

SOC 131 3 Credits

33 hours of lecture

The sociological perspectives of race and ethnicity, including an examination of prejudice and discrimination from the interpersonal to the institutional level. Application of concepts and theories to both historical and current events in the U.S. [SE]

INTRODUCTION TO ISLAM

SOC 141 3 Credits

33 hours of lecture

Introduction to the world of Islam and Muslim populations. Topics include Islam as a way of life in a socio-cultural context and the ways this religion affects the individual, family, and social life in various Islamic societies. Focus on analyzing Islam both in theory and in practice.

COOPERATIVE WORK EXPERIENCE

SOC 199 Fall Winter Spring 1 – 5 Credits

165 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employer evalua-

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tion. Completion of, or concurrent enrollment HDEV 195, 198 or 200 required. Prerequisite: Consent of Instructional Unit. [GE]

SOCIAL PROBLEMS

SOC& 201 5 Credits

55 hours of lecture

Study of the magnitude and consequences of social problems in the US from a sociological perspective and examination of solutions to these problems from a cross-cultural perspective. Topics include: health, work, inequality, family, environment, substance abuse, crime and national security. Prerequisite: A grade of "C" or better in SOC 101. [SE, SS]

DEATH AND DYING

SOC 220 3 Credits

33 hours of lecture

A comprehensive survey of death, dying, bereavement, and other losses and their societal impacts upon people. Various cultural attitudes, traditions and changing values surrounding death and dying will be explored. [SE, SS]

DOMESTIC VIOLENCE

SOC 230 Winter Spring 5 Credits

55 hours of lecture

Introducing historical and current ideas, myths and empirical research regarding domestic partner abuse. Defining abuse and examining cultural, social, family and psychological factors associated with offenders and victims: why, how, who, and what responses have been tried. Prerequisite: SOC& 101 or PSYC& 100 (or SOC 101 or PSYC 101). [SE]

CRIMINOLOGY

SOC 240 Fall 5 Credits

55 hours of lecture

An introductory examination of crime, deviant behavior and social control. Crime and deviance as social processes. Historical and contemporary explanations of criminological theory. Prerequisite: SOC& 101 or PSYC 100 (or SOC 101 or PSYC 101). [SE]

SOCIOLOGY: SELECTED TOPICS

SOC 280 Fall Winter Spring 1 – 5 Credits

55 hours of lecture

Varying topics in Sociology as listed in the quarterly class schedule. May be repeated for credit. [SE]

SPECIAL PROJECTS

SOC 290 Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

Spanish

SPANISH I

SPAN& 121 Fall Winter Spring 5 Credits

55 hours of lecture

First of a three-quarter sequence in elementary Spanish. Emphasis on listening/speaking skills, with additional practice in reading/writing. Course intended for students with little or no previous experience in studying Spanish. [HA, SE]

SPANISH II

SPAN& 122 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Continuation of the elementary Spanish sequence. Prerequisite: SPAN& 121 or two years high school Spanish, or S-CAPE placement test recommended. [HA,SE]

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SPANISH III

SPAN& 123 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Conclusion of the three-quarter sequence in elementary Spanish. Prerequisite: SPAN& 122 or equivalent, or S-CAPE placement test recommended. [HA,SE]

CONVERSATIONAL SPANISH

SPAN 141 3 Credits

33 hours of lecture

Intensive practice in Spanish conversation. Discussion in small groups of contemporary topics common to American and Hispanic societies. Prerequisite: SPAN& 122 or equivalent. [HB, SE]

STUDY ABROAD ORIENTATION

SPAN 150 1 Credit

11 hours of lecture

Preparing students to travel with the Clark College study abroad program in Spanish-speaking country. Successful completion of this course required for students to participate in the travel abroad program. Application and acceptance into the study abroad program also required. Prerequisite: A grade of "C" or better or concurrent enrollment in SPAN& 122 or above; or consent of Instructional Unit.

COOPERATIVE WORK EXPERIENCE

SPAN 199 Spring 1 – 10 Credits

330 hours of clinical

Summer cooperative work experience in a Spanish-speaking country. Requires use of Spanish language. Enroll in this course Spring quarter prior to participation abroad. Prerequisite: Consent of Instructional Unit.

SPANISH STUDIES

SPAN 204 2 Credits

22 hours of lecture

Student and instructor determine area of study from the following: literature, civilization and culture, or advanced Spanish composition and conversation. Prerequisite: Consent of Instructional Unit. [HA, SE]

SPANISH STUDIES

SPAN 205 2 Credits

22 hours of lecture

Student and instructor determine area of study from the following: literature, civilization and culture, or advanced Spanish composition and conversation. Prerequisite: Consent of Instructional Unit. [HA, SE]

SPANISH STUDIES

SPAN 206 2 Credits

22 hours of lecture

Student and instructor determine area of study from the following: literature, civilization and culture, or advanced Spanish composition and conversation. Prerequisite: Consent of Instructional Unit. [HA, SE]

SPANISH IV

SPAN& 221 Fall Winter Spring 5 Credits

55 hours of lecture

Discussion in Spanish of topics from Hispanic civilization and culture. Intensive grammar review and composition practice. Prerequisite: SPAN& 123 or equivalent, or S-CAPE placement test recommended. [HA, SE]

SPANISH V

SPAN& 222 Fall Winter Spring 5 Credits

55 hours of lecture

Discussion in Spanish of topics from Hispanic civilization and culture. Intensive grammar review and composition practice. Prerequisite: SPAN& 221 or equivalent. [HA, SE]

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SPANISH VI

SPAN& 223 Fall Winter Spring 5 Credits

55 hours of lecture

Discussion in Spanish of topics from Hispanic civilization and culture. Intensive grammar review and composition practice. Prerequisite: SPAN& 222 or equivalent. [HA, SE]

SELECTED TOPICS

SPAN 280 1 – 5 Credits

55 hours of lecture

Selected topics in Spanish. Topics vary and course theme and content change to reflect new topics. This course may be repeated for credit. [SE]

SPECIAL PROJECTS

SPAN 290 Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

Speech (CMST)

INTRO TO MASS MEDIA

CMST& 102 3 Credits

33 hours of lecture

Survey of major communication media, print through satellite, their primary functions and social impact. Formerly CMST 120. [HA, SE]

INTRODUCTION TO BROADCASTING

CMST 130 3 Credits

33 hours of lecture

Examination of the broadcasting system; the social and economic forces that shape it and its end product, programming. Analysis of the rights and responsibilities of broadcasters. [SE]

COMPETITIVE SPEAKING AND DEBATE

CMST 171 Fall 3 Credits

33 hours of lecture

For students interested in intercollegiate speech/debate competition. Emphasis on debate/persuasive speaking, attention given to other forms of speech events and tournament management. Prerequisite: A grade of "C" or better in CMST & 220 (or CMST 101), or consent of Instructional Unit. [HB, SE]

COMPETITIVE SPEAKING AND DEBATE

CMST 172 Winter 3 Credits

33 hours of lecture

For students interested in intercollegiate speech/debate competition. Emphasis on informative speaking and interpretive reading. Attention given to debate and other forms of speech events. Prerequisite: A grade of "C" or better in CMST& 220 (or CMST 101), or consent of Instructional Unit. [HB, SE]

COMPETITIVE SPEAKING AND DEBATE

CMST 173 Spring 3 Credits

33 hours of lecture

For students interested in intercollegiate speech/debate competition. Emphasis on audience analysis and other forms of forensics activities. Prerequisite: A grade of "C" or better in CMST& 220 (CMST 101) or consent of Instructional Unit. [HB, SE]

COOPERATIVE WORK EXPERIENCE

CMST 199 1 – 5 Credits

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Supervised work experience in an approved job. Completion of specific learning objectives and employer evalu-

ation. Completion of, or concurrent enrollment in HDEV 195, 198 or 200 required. Prerequisite: Consent of Instructional Unit. [GE]

INTERPERSONAL COMMUNICATION

CMST& 210 Summer Fall Winter Spring

55 hours of lecture

Person-to-person communication emphasizing theoretical principles and their application. How self-concept, perception, verbal and non-verbal attributes and attitudes influence communication within the family, between friends, and at work. [C, SE, HA]

5 Credits

ORAL COMMUNICATION IN BUSINESS

CMST 212 3 Credits

33 hours of lecture

Principles and practices of speech communication at work. Face-to-face and person-to-group interactions common to organizations and work settings. Credit not allowed for both MGMT 108 and CMST 212. [SE]

INTERCULTURAL COMMUNICATION

CMST 216 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Examination of the impact of culture on communication. Analysis of patterns of communications which affect the ability to establish clear understanding and effective interpersonal relationships. Skills to improve communication across cultural boundaries. [HA, SE]

PUBLIC SPEAKING

CMST& 220 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Introduction to speechmaking based primarily on a traditional public speaking approach. Aids students in developing theoretical understanding and practical application of oral communication skills. Techniques in controlling speech anxiety, how to structure and organize information to present to a variety of audiences; and physical and vocal delivery skills. [C,HA,SE]

SMALL GROUP COMMUNICATION

CMST& 230 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Small group communication emphasizing theoretical principles and their application, enabling students to become more comfortable and competent participants in the group communication process. Emphasis will be on the study and application of the dynamics of group development, problem solving methodologies, and the use of power, including leadership and conflict. Formerly titled CMST 201. Credit not allowed for both CMST 201 and CMST& 230. [C,SE,SS,HA]

INTRODUCTION TO PERSUASION THEORY

CMST 240 5 Credits

55 hours of lecture

A survey of the evaluation of the concepts and techniques of persuasive public address, from the early Greek period through contemporary theorists. A non-public speaking course with the emphasis and focus on the understanding and analysis of persuasive oral discourse. [HA, SE]

WRITING FOR TELEVISION AND FILM

CMST 250 3 Credits

33 hours of lecture

Film and television scriptwriting with emphasis on commercial, dramatic and news formats. Prerequisite: A grade of "C" or better in ENGL& 101 (or ENGL 101). [SE]

COMPETITIVE SPEAKING AND DEBATE

CMST 271 Fall 3 Credits

33 hours of lecture

For students interested in intercollegiate speech/debate competition. Emphasis given to advanced and indepen-

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dent studies in debate and persuasive speaking. Attention given to style. Students will manage the Clark College forensics tournament. Prerequisite: A grade of "C" or better in CMST 171, 172 or 173, or consent of Instructional Unit. [HB, SE]

COMPETITIVE SPEAKING AND DEBATE

CMST 272 Winter 3 Credits

33 hours of lecture

For students interested in intercollegiate speech/debate competition. Emphasis given to advanced and independent studies in informative speaking and interpretive reading. Attention given to style. Prerequisite: A grade of "C" better in CMST 171, 172 or 173, or consent of Instructional Unit. [HB, SE]

COMPETITIVE SPEAKING AND DEBATE

CMST 273 Spring 3 Credits

33 hours of lecture

For students interested in intercollegiate speech/debate competition. Attention given to advanced and independent audience analysis and other forensics activities. Prerequisite: A grade of "C" or better in CMST 171, 172 or 173, or consent of Instructional Unit. [HB, SE]

SELECTED TOPICS

CMST 280 5 Credits

55 hours of lecture

The course focuses on selected topics in Communication Studies. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. Individual topics are listed in the quarterly class schedule. [SE]

SPECIAL PROJECTS

CMST 290 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

Surveying

INTRODUCTION TO GPS

SURV 100 Fall 2 Credits

11 hours of lecture 22 hours of lab

Introduction to global positioning tools. Fundamental concepts and use of modem handheld GPS. Includes field work and use of basic GPS software. Prerequisite: A grade of "C" or better in MATH 095 or qualifying score on placement test.

FUNDAMENTALS OF SURVEY

SURV 102 Fall Winter Spring 2 Credits

11 hours of lecture 22 hours of lab

Introduction to concepts of map reading, coordinate systems, the Public Land Survey System, basic legal descriptions of real property, plotting field data and creating a plat, and the minimum requirements for preparing plats in the State of Washington. No field work required.

APPLIED MATH FOR SURVEYING

SURV 104 Winter 5 Credits

55 hours of lecture

Basic coordinate geometry, curves and solutions, conversions, statistics and error analysis, traverse calculations, inversing, coordinate positions, and area calculations. Prerequisite: A grade of "C" or better in MATH 103.

FIELD SURVEY I

SURV 121 Fall 5 Credits

88 hours of lecture 44 hours of lab

Basic theory of surveying, measurement and calculation. Topics include measurement and determination of bound-

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aries, areas, shapes, and location through traversing techniques, error theory, compass adjustments, public land system, and use of programmable calculators. Also covers principles of measurements of distances, elevation and angles. Concurrent enrollment in Lab. Prerequisite: A grade of "C" or better in MATH 095 or qualifying score on placement exam.

FIELD SURVEY II

SURV 122 Winter 5 Credits

33 hours of lecture 44 hours of lab

Theories of electronic distance measurement, instrument calibration and analysis; principles of route location and design; theories of circular, parabolic, and spiral curves; highway and railway geometric design; area and volumes of earthwork; and mass diagrams. Prerequisite: A grade of "C" or better in SURV 121.

SURVEY TECHNOLOGY SEMINAR

SURV 123 Winter 2 Credits

22 hours of lecture

Survey safety, ethics, and communication. Problem solving methods, procedures, and human relations related to on-the-job work experience in field surveying. Prerequisite: Completion of, or concurrent enrollment in, SURV 121

INTRODUCTION TO GIS

SURV 125 Fall 3 Credits

33 hours of lecture

Introduction to Geographic Information Systems (GIS) methods and theory. Background and development of GIS technology. Introduction to relational and spatial databases and spatial analysis. Prerequisite: A grade of "C" or better in MATH 089 or 090, or placement in MATH 091 or higher.

ROUTE SURVEYING

SURV 163 Spring 5 Credits

33 hours of lecture 44 hours of lab

Introduction to elements of horizontal and vertical route alignment and layout. Use design software and a total station for the construction of a section of road. Include the construction of a topographic map, a centerline alignment, and a final plan and profile showing centerline alignment. Use of topographic data for earthwork computations for proposed route. Prerequisite: A grade of "C" or better in SURV 162.

CO-OP WORK EXPERIENCE

SURV 199 Summer Spring 1 – 5 Credits

165 hours of clinical

Work-based learning experience that enables students to apply specialized occupational theory, skills and concepts. Specific objectives are developed by the College and the employer. Prerequisite: A grade of "C" or better in SURV 121.

BOUNDARY SURVEYS

SURV 202 Fall 4 Credits

44 hours of lecture

Principles and laws relating to boundary surveys, including their creation, ownership, and the role of the surveyor; introduction to the Public Land Survey System, including history, proportioning, subdividing and evidence analysis. Topics include boundary history and boundary surveys, rights in land, junior/senior title rights, retracement of originals surveys, deed first/survey first, common and case law, ranking/prioritizing evidence, controlling monuments and corners, errors in legal descriptions and plats. Prerequisite: A grade of "C" or better in SURV 121.

LEGAL DESCRIPTIONS

SURV 203 Winter 3 Credits

33 hours of lecture

Research and practice pertaining to the legal aspects of writing land description documents used in real property; written research project required. Prerequisite: A grade of "C" or better in SURV 121.

BOUNDARY LAW I

SURV 223 Spring 3 Credits

33 hours of lecture

Introduction to statute law, common law, case law, and legal principles of land boundaries and the practice of land surveying in Washington. Topics include an introduction to principles of professional practice and ethical consideration. Prerequisite: A grade of "C" or better in SURV 121.

SUBDIVISION PLANNING A & PLATTING

SURV 225 Spring 3 Credits

33 hours of lecture

A study of selected state laws and regulations pertaining to the surveying profession that affect the surveying of division of lands; layout and design of subdivisions; environmental considerations and site analysis procedures. Prerequisite: A grade of "C" or better in SURV 102 and 122.

ARC GIS I

SURV 250 Spring 4 Credits

22 hours of lecture 44 hours of lab

Introduction to ArcGIS. GIS concepts, methodologies, and techniques. Prerequisite: A grade of "C" or better in SURV 125.

SURVEY SOFTWARE APPLICATIONS

SURV 264 Winter 3 Credits

22 hours of lecture 22 hours of lab

Use of surveying and related software to solve and plot assignments in traverse calculations, horizontal and vertical curve alignments, profiles, contours, and earthwork calculations. Some hand generated plots and calculations will be made to supplement the computer calculations. Prerequisite: A grade of "C" or better in SURV 121.

SELECTED TOPICS

SURV 280 Winter 1 – 6 Credits

44 hours of lecture

Course focuses on selected topics in Surveying. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. [SE]

SPECIAL PROJECTS

SURV 290 1 – 5 Credits

Opportunity to plan, organize, and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

Tutoring

TUTORING

TUTR 185 Summer Fall Winter Spring 1 – 3 Credits

66 hours of lab

Introduction to methods and techniques in tutoring. Tutoring training assignments in various disciplines. [GE]

TUTORING-WRITING

TUTR 186 Summer Fall Winter Spring 1 – 3 Credits

66 hours of lab

Introduction to strategies for effectively tutoring writers at all stages of the writing process and experience working one-on-one with writing across the disciplines. [GE]

Welding

WELDING FABRICATION

WELD 056 1 – 2 Credits

44 hours of lab

Opportunity for students to organize and complete projects. Also to complete welder certification. Concurrent enrollment in the welding program or journeyman level. Prerequisite: Consent of Instructional Unit.

RELATED WELDING FOR DIESEL

WELD 101 Fall 6 Credits

33 hours of lecture 66 hours of lab

Instruction and practice in related welding for students enrolled in the Diesel Technology program. Oxy-acetylene and electric arc welding processes will be covered. [GE]

RELATED WELDING FOR AUTOMOTIVE

WELD 105 Spring 3 Credits

22 hours of lecture 22 hours of lab

Instruction and practice in related welding for students enrolled in the Automotive Technology program. Oxyacetylene and gas metal arc welding processes will be covered. [GE]

EXPLORING WELDING I

WELD 107 Winter 6 Credits

33 hours of lecture 66 hours of lab

Instruction and practice of arc welding processes, oxyfuel processes, and fabrication machinery for beginning to advanced welders. Specialized instruction and American Welding Society welder certification is available to advanced students. [GE]

EXPLORING WELDING II

WELD 108 Spring 4 Credits

22 hours of lecture 44 hours of lab

Instruction and practice of arc welding processes, oxyfuel processes, and fabrication machinery for beginning to advanced welders. Specialized instruction and American Welding Society welder certification is available to advanced students. [GE]

WELDING BLUEPRINT READING

WELD 110 Winter Spring 4 Credits

44 hours of lecture

Interpretation of welding blueprints, welding symbols, tolerances and structural shapes. [GE]

INTRODUCTION TO WELDING INDUSTRY

WELD 111 Fall Winter Spring 3 Credits

33 hours of lecture

Welding and shop safety, oxy-fuel theory (fusion, welding, braze welding, brazing, flame cutting), shielded metal arc welding, filler metal identification, joint design, welding codes and specifications. Concurrent enrollment in WELD 112 required. [GE]

OXY-ACETYLENE AND SHIELDED METAL ARC LAB

WELD 112 Fall Winter Spring 10 Credits

55 hours of lecture 110 hours of lab

Shop practice in concepts and topics covered in WELD 111 including three weeks of oxy-fuel applications and cutting, and seven weeks of shielded metal arc using E6010/E6011 electrode, and related processes. Concurrent enrollment in WELD 111 required. [GE]

SHIELDED METAL ARC WELDING THEORY I

WELD 113 Fall Winter Spring 3 Credits

33 hours of lecture

Welding and shop safety, S.M.A.W. power sources, and basic metallurgy. Weld evaluation and quality control, destructive and non-destructive testing and metal removal processes. Concurrent enrollment in WELD 114 required. Prerequisite: WELD 111. [GE]

SHIELDED METAL ARC WELDING LAB I

WELD 114 Fall Winter Spring 10 Credits

55 hours of lecture 110 hours of lab

Application of concepts and topics covered in WELD 113. Ten weeks shielded metal arc welding using E7018 electrode in all positions, and related processes. Concurrent enrollment in WELD 113 required. Prerequisite: WELD 112. [GE]

SHEILDED METAL ARC WELDING THEORY II

WELD 115 Fall Winter Spring 3 Credits

33 hours of lecture

Welding fabrication, pipe welding, repair and maintenance welding, and special welding processes using shielded metal arc, and oxy-fuel processes. Concurrent enrollment in WELD 116 required. Prerequisite: WELD 113. [GE]

SHIELDED METAL ARC WELDING LAB II

WELD 116 Fall Winter Spring 10 Credits

55 hours of lecture 110 hours of lab

Application of concepts and topics covered in WELD 115 to do a variety of projects covering fabrication and repair. Concurrent enrollment in WELD 115 required. Prerequisite: WELD 114. [GE]

ARC/OXY FUEL WELDING

WELD 117 Fall 6 Credits

33 hours of lecture 66 hours of lab

Welding theory and practical applications in the use of oxy-fuel equipment and shielded metal arc welding (stick). Designed for beginners to intermediate welders. [GE]

WIRE FEED AND TIG WELDING I

WELD 118 Winter Spring 6 Credits

33 hours of lecture 66 hours of lab

Welding theory and practical applications in the use of the Wire Feed Welding process and use of the TIG Welding process. Designed for beginners to intermediate welders. [GE]

WIRE FEED AND TIG WELDING II

WELD 119 Winter Spring 6 Credits

33 hours of lecture 66 hours of lab

Welding theory and practical applications in the use of the Wire Feed process and use of the TIG Welding process. Designed for intermediate to advanced welders. [GE]

WELDED SCULPTURE LAB I

WELD 120 Fall Winter Spring 3 Credits

66 hours of lab

Development of a rudimentary expressive design language using welded metal as a medium. Exploration of beginning welding and metal-working skills. Concurrent enrollment in ART 295 required. [GE]

WELDING SCULPTURE LAB II

WELD 121 Fall Winter Spring 3 Credits

66 hours of lab

Three dimensional design problems are explored while creating a welded metal sculpture. Gas metal arc welding and plasma arc cutting are introduced. Use of hydraulic power equipment and metal cut-off equipment is covered. Concurrent enrollment in ART 296 required. [GE]

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WELDED SCULPTURE LAB III

WELD 122 Fall Winter Spring 3 Credits

66 hours of lab

A fabricated welded metal sculpture is created while learning advanced metal working skills. The gas tungsten arc welding process and resistance welding are covered. Concurrent enrollment in ART 297 required. [GE]

COOPERATIVE WORK EXPERIENCE

WELD 199 Fall Winter Spring 1 – 5 Credits

165 hours of clinical

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Prerequisite: Consent of Instructional Unit.

GAS TUNGSTEN ARC WELDING

WELD 221 Fall 3 Credits

33 hours of lecture

Tungsten inert gas welding of ferrous and non-ferrous metals. Study of the various types of shielding gases and filler metals. [GE]

GAS TUNGSTEN ARC WELDING LAB

WELD 222 Fall 10 Credits

55 hours of lecture 110 hours of lab

Application of concepts and topics covered in WELD 221. Concurrent enrollment in WELD 221 required. [GE]

SEMI-AUTOMATIC WELDING

WELD 223 Winter Spring 3 Credits

33 hours of lecture

Semi-automatic production welding of ferrous and non-ferrous metals. Short arc, flux core and spray arc welding processes. Effect of various shielding gases and filler metals. [GE]

SEMI-AUTOMATIC WELDING LAB

WELD 224 Winter Spring 10 Credits

55 hours of lecture 110 hours of lab

Application of concepts and topics covered in WELD 223. Concurrent enrollment in WELD 223 required. [GE]

SPECIAL WELDING PROCESSES

WELD 225 Spring 3 Credits

33 hours of lecture

Submerged arc, resistance, welder certification, weld procedures, GMAW pulse arc, non-ferrous metals. Concurrent enrollment in WELD 226 required. Prerequisite: WELD 223 or consent of Instructional Unit. [GE]

PRODUCTION WELDING PROCESSES

WELD 226 Spring 10 Credits

55 hours of lecture 110 hours of lab

Application of concepts and topics covered in WELD 225. Concurrent enrollment in WELD 225 required. Prerequisite: WELD 224 or consent of Instructional Unit. [GE]

ELEMENTARY METALLURGY

WELD 235 Fall Winter Spring 2 Credits

22 hours of lecture

Physical metallurgy oriented towards the metal working trades, ferrous and non-ferrous metals, manufacturing methods, material classification and identification, thermal processing, and joining. Concurrent enrollment in WELD 236 required. [GE]

ELEMENTARY METALLURGY LAB

WELD 236 Fall Winter Spring 2 Credits

44 hours of lab

Application of physical metallurgy oriented towards the metal working trades, ferrous and non-ferrous metals,

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manufacturing methods, material classification and identification, thermal processing, and joining. Concurrent enrollment in WELD 235 required. [GE]

SELECTED TOPICS

WELD 280 Summer Fall Winter Spring 1 – 6 Credits

66 hours of lecture

Selected topics in Welding as listed in the quarterly class schedule. Repeatable for credit. [GE]

SPECIAL PROJECTS

WELD 290 Fall Winter Spring 1 – 5 Credits

Projects assigned according to needs and abilities of the student. Hours arranged with instructor. Maximum of 15 credits allowed toward a certificate or degree. Prerequisite: Consent of Instructional Unit required. [GE]

Women's Studies

INTRODUCTION TO WOMEN'S STUDIES

WS 101 Summer Fall Winter Spring 5 Credits

55 hours of lecture

Essential issues of feminism and theories of oppression and privilege particularly with respect to gender, race, class, sexuality, age, and ability. Topics may include women and gender socialization, family, work, politics, health, sexuality, body image, violence, spirituality, art, and culture. Fulfills either humanities or social science distribution requirements for the associate degree. Prerequisite: A grade of "C" or better in ENGL 098 taken at 5 credits or recommended score on the writing skills placement test for ENGL& 101. [HA, SE, SS]

WOMEN AROUND THE WORLD

WS 201 Summer Fall Winter Spring 3 Credits

33 hours of lecture

Study of current issues affecting women. International feminism, reproductive rights, women in leadership, and affirmative action from a cross-cultural perspective. Fulfills either humanities or social science distribution requirements for the associate degree. [HA, SE, SS]

WOMEN'S CULTURE

WS 210 Summer Fall Winter Spring 3 Credits

33 hours of lecture

A study of women's art and women in the arts, with emphasis on the roles and images of women in fine and folk art, music, film and mythology. Examines the historical events and sociological factors influencing those roles and images. Fulfills either humanities or social science distribution requirements for the A.A. transfer degree. [HA, SE, SS]

RACE, CLASS, GENDER AND SEXUALITY

WS 220 Spring 5 Credits

55 hours of lecture

Studies the social construction of difference, inequality and privilege in race, class, gender, sex, and sexual orientation in the U.S. Examines how these categories are created, maintained, and experienced; how meaning is assigned to those categories; and how social constructions can be challenged. Prerequisite: WS 101.

SELECTED TOPICS

WS 280 1 – 3 Credits

33 hours of lecture

This course focuses on selected topics in women's studies. Topics vary and course theme and content change to reflect new topics. This course may be repeated for credit. [SE]

SPECIAL PROJECTS

WS 290 Summer Fall Winter Spring 1 – 5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit. [GE]

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SECTION E: College Information

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History

In the midst of the Great Depression, a group of educators boldly embraced a dream of higher education for Southwest Washington. That dream became reality when Clark College was founded as a private junior college in 1933.

The college was originally located in Vancouver's historic Hidden House, where it remained through 1937. During the next two decades, the college was housed at four different locations. In 1951, the college launched an evening program in the Applied Arts Center, the first building on the current 101-acre campus in Vancouver's Central Park.

Initial accreditation was granted during the 1936-37 academic year following a visit by professors from the University of Washington. In 1948, the college first received accreditation from the organization known as the Northwest Association of Secondary and Higher Schools. Today, that organization is known as the Northwest Commission on Colleges and Universities (NWCCU). Since its first accreditation in 1937, through periodic reviews, Clark College has remained accredited throughout its history.

Clark College first received state financial support in 1941. Five years later, the college was placed under the general supervision of the State Board of Education, with the Vancouver School Board serving as its policy-making body.

In 1967, the Washington State Legislature created a state system of community college districts. Clark Community College District No. 14, one of 34 Washington community and technical colleges, serves residents of Clark, Skamania and west Klickitat counties. The college is governed by a five-member board of trustees appointed by the Governor.

Accreditation

Clark College is accredited by the Northwest Commission on Colleges and Universities (8060 165th Avenue NE, Suite 100, Redmond, WA 98052), a regional institutional accrediting agency recognized by the Secretary of the U.S. Department of Education and the Council for Higher Education Accreditation.

Several of the college's professional/technical programs are also accredited by program-specific accrediting bodies. The associate degree nursing program is accredited by the National League for Nursing Accrediting Commission. The dental hygiene program is accredited by the Commission on Dental Accreditation. The automotive technology program is accredited by the National Automotive Technicians Education Foundation and certified by the National Institute for Automotive Service Excellence. The medical assistant certificate program is accredited by the Commission on Accreditation of Allied Health Education Programs.

College-Wide Abilities

Clark College has identified six college-wide abilities that help students apply what they learn. The core abilities are taught across the curriculum and students continually practice and improve their skills in the six areas.

Communication: The ability to understand and deliver written, spoken and visual communication clearly and accurately.

Critical Thinking/Problem Solving: The ability to formulate, evaluate and synthesize facts, data, ideas, assumptions, values and points of view.

Effective Citizenship: The ability to identify community issues, evaluate and respect various opinions and values, and articulate one's own perspective.

Global/Multicultural Perspectives: The ability to identify, analyze and demonstrate how culture shapes world perceptions, values and behaviors.

Information/Technology: The ability to identify resources, retrieve and manage data, interpret, evaluate and use information, and adapt to changing technologies.

Life-long Learning: The ability to set and revise goals, access resources and assume responsibility for one's own learning.

College Assessment

Clark College is committed to fostering the academic achievement and personal development of its students. To carry out that commitment, the college continuously gathers information about the effectiveness of its programs and services, the progress of its students toward educational and personal goals, and the achievements and perspectives of its alumni. This information is used to monitor program effectiveness, to recognize educational trends and opportunities, and to develop a sound, factual basis for academic planning.

Each Clark College student is expected to participate in the college's assessment efforts. Programs and services use various means to gather assessment information, including portfolios, performances, achievement tests, comprehensive examinations, surveys, interviews, focus groups, evaluation forms, and other methods.

College-Wide Student Outcomes

Clark College faculty members have identified 34 college-wide student learning outcomes for degree-seeking students. Organized into nine outcome areas, the outcomes are measured throughout our instructional program to focus on student learning and reflect our commitment to providing an innovative, accessible education to our community members.

The college-wide student learning outcomes are as follows:

Communication

Locate information applicable to task, discipline, and/or occupation

Synthesize information appropriately

Present information effectively through written and/or oral communication

Demonstrate principles of ethical communication in the presentation of ideas

Demonstrate ability to adapt to a variety of audiences appropriately

Demonstrate effective oral and/or written communication appropriate to the discipline and/or the occupation

Health & Physical Education

Demonstrate progress toward healthier behaviors

Human Relations

Demonstrate effective interpersonal/human relations skills appropriate to the discipline and/or the occupation

Humanities

Demonstrate how a discipline in the humanities influences or reflects cultures

Produce, create, interpret or critique works from a discipline in the humanities

Explain why the humanities are important to cultures, communities or individuals

Information

Recognize how information changes one's knowledge base and value system

Determine the nature and extent of information needed

Access needed information effectively and efficiently

Evaluate information and its sources critically

Identify the ethical, legal, and personal responsibility issues surrounding the access, creation, and use of information

Quantitative

Comprehend the content and evaluate the quality of quantitative information

Use appropriate vocabulary and notation of quantitative methods

Analyze and solve quantitative problems using appropriate methods

Interpret and explain solutions to quantitative problems

Perform accurate mathematical operations appropriate to the discipline and/or the occupation

Science

Demonstrate comprehension of fundamental principles and relationships in the natural sciences

Communicate concepts and issues in the natural sciences

Acquire scientific information from appropriate sources

Analyze issues, claims, and situations using scientific methodology

Social Science

Demonstrate a broad base of knowledge consistent with current scholarship of human behavior, events, societies, and humanity's place in nature

Assess the strengths and limitations of theories and methods used by social scientists

Analyze and evaluate the human condition from multiple perspectives

Apply relevant concepts, theories and research to evaluate real-life social problems and propose plausible solutions for contemporary social problems

Demonstrate global and multicultural awareness

Technology

Identify and effectively use the appropriate technology to achieve a desired outcome or result

Explain the value of technology in one's life and how it can be used effectively

Analyze the ethical and legal issues surrounding access to and use of technology

Assess the potentials and limitations of technology

Student Rights and Responsibilities

Clark College is committed to providing an academic community conducive to student success. Student rights and responsibilities are comprehensively defined in the Code of Student Conduct. For a complete copy of this policy, refer to the Code of Student Conduct section of this catalog, or the Clark College website.

Notice of Nondiscrimination and Equal Opportunity

Clark College affirms a commitment to freedom from discrimination for all members of the college community. Clark College expressly prohibits discrimination against any person on the basis of race, creed, religion, color, national origin, sex, age, sexual orientation, gender identity, gender expression, marital status, the presence of any physical, sensory or mental disability, or status as a disabled or honorably discharged veteran and military status. The responsibility for, and the protection of, this commitment extends to students, faculty, administration, staff, contractors, and those who develop or participate in college programs. It encompasses every aspect of employment and every student and community activity.

Discrimination is prohibited by Title VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 503 and 504 of the Rehabilitation Act of 1973, Americans with Disabilities Act of 1990, WLAD (RCW 49.60), Age Discrimination in Employment Act Amendment of 1978, Vietnam Era Veterans Readjustment Assistant Act of 1974, Equal Pay Act of 1963, Executive Orders 11246 and 11375, and federal and state statutes and regulations.

Persons with concerns about discrimination or equal opportunity should refer to the Discrimination and Harassment Grievance Procedure on page E20.

Cultural Pluralism and Respect for Differences

Student success is best achieved when diversity and multiple perspectives are represented. For students to be successful in today's global community and economy it is imperative that the college support teaching, learning and interactions that build a strong global perspective. Clark College is strongly committed to cultural, ethnic and racial pluralism and fostering respect for differences and multiple perspectives. This commitment means that individuals representing the multitude of diversity within the college must strive to interact in a dynamic and collaborative way while maintaining and valuing differences, and leveraging similarities and common goals.

Code of Student Conduct

Chapter 132N-121 WAC (formerly Chapter 132N-120 WAC)

Last update: March 20, 2010

WAC 132N-121-010 Code of student conduct
WAC 132N-121-020 Authority

WAC 132N-121-030 Definitions
WAC 132N-121-040 Jurisdiction

WAC 132N-121-045 Students studying abroad

WAC 132N-121-050 Student rights

WAC 132N-121-060 Grounds for discipline

WAC 132N-121-062 Academic dishonesty

WAC 132N-121-065 Trespass

WAC 132N-121-070 Disciplinary sanction

WAC 132N-121-080 Initial disciplinary proceedings

WAC 132N-121-090 Appeals

WAC 132N-121-100	Committee on student conduct
WAC 132N-121-110	Hearing procedures before the committee on student conduct
WAC 132N-121-112	Decision by the committee on student conduct and notification
WAC 132N-121-120	Recordkeeping
WAC 132N-121-150	Summary suspension proceedings
WAC 132N-121-151	Appeals from summary suspension hearing
WAC 132N-121-500	Classroom misconduct and authority to suspend for no more than one day

WAC 132N-121-010 Code of student conduct.

- (1) Clark College provides its community and students with education and services of the highest quality. We do this in a manner which exhibits concern and sensitivity to students, faculty, staff and others who utilize our services and facilities. It is essential that members of Clark College exhibit appropriate and conscientious behavior in dealing with others.
- (2) Clark College expects all students to conduct themselves in a manner consistent with its high standards of scholarship and conduct. Student conduct, which distracts from or interferes with accomplishment of these purposes, is not acceptable. Students are expected to comply with these standards of conduct for students both on and off campus and acknowledge the college's authority to take disciplinary action.
- (3) Admission to Clark College carries with it the presumption that students will conduct themselves as responsible members of the academic community. This includes an expectation that students will obey the law, comply with policies, procedures and rules of the college and its departments, maintain a high standard of integrity and honesty and respect the rights, privileges and property of other members of Clark College.
- (4) It is assumed that students are and wish to be treated as adults. As such, students are responsible for their conduct. These standards of conduct for students promote Clark College's educational purposes and provide students a full understanding of their rights and responsibilities. Sanctions for violations of the standards of conduct for students will be administered under this chapter. When violations of laws of the state of Washington and/or the United States are also involved, the college may refer such matters to proper authorities and in the case of minors, this conduct may be referred to parents or legal guardians.

WAC 132N-121-020 Authority.

The board of trustees, acting pursuant to RCW 28B.50.140(14), delegates to the president of the college the authority to administer disciplinary action. Administration of the disciplinary procedures is the responsibility of the vice-president of student affairs or designee. The student conduct officer shall serve as the principal investigator and administrator for alleged violations of this code.

WAC 132N-121-030 Definitions.

As used in this chapter, the following words and phrases shall be defined as follows:

- (1) "ASCC" means the associated students of Clark College as defined in the constitution of that body.
- (2) "Assembly" means any overt activity engaged in by one or more persons, the object of which is to gain publicity, advocate a view, petition for a cause, or disseminate information to any person, persons, or group of persons.
- (3) "Board" means the board of trustees of Community College District No. 14, state of Washington.
- (4) "College" means Clark College and any other community college centers or facilities established within Washington state Community College District No. 14.
- (5) "College community" means trustees, students, staff, faculty, and visitors on college-owned or controlled facilities.
- (6) "College facilities" and "college facility" mean and include any and all real and personal property owned, rented, leased or operated by the board of trustees of Washington state Community College District No. 14, and shall

- include all buildings and appurtenances attached thereto and all parking lots and other grounds. College facilities extend to distance education classroom environments, and agencies or institutions that have educational agreement with the college.
- (7) "College official" includes any person employed by the college performing assigned duties.
- (8) "College premises" includes all land, buildings, facilities, and other property in the possession of or owned, used, or controlled by the college.
- (9) "Committee on student conduct" is the body authorized by the vice-president of student affairs to determine whether a student has violated the code of student conduct and the type of sanction(s) imposed when a violation has been committed.
- (10) "Complainant" means any person who submits a charge alleging that a student violated the code of student conduct.
- (11) "Controlled substance" means and includes any drug or substance as defined in chapter 69.50 RCW as now law or hereafter amended.
- (12) "Day" means calendar day, and does not include Saturdays, Sundays, or legal holidays. Timelines set forth in this chapter may be extended in unusual circumstances as determined by the vice-president for student affairs. Also see WAC 10-08-080 Computation of time, adopted pursuant to WAC 132N-108-010.
- (13) "Faculty member" and "instructor" mean any employee of Community College District No. 14 who is employed on a full-time or part-time basis as a teacher, instructor, counselor or librarian.
- (14) "President" means the president of Clark College and Community College District No. 14, state of Washington, and for the purposes of these rules includes "acting president" or the delegated authority in the absence of the president.
- (15) "RCW" means Revised Code of Washington which can be accessed at http://apps.leg.wa.gov/rcw/.
- (16) "Student" means and includes any person who is registered for classes or is formally in the process of applying for admission to the college. Persons who are not registered for a particular term but who have a continuing relationship with the college, or persons who withdraw after allegedly violating the conduct code, are considered "students."
- (17) "Student conduct officer (SCO)" means the college administrator designated by the vice-president of student affairs who is responsible for investigating alleged violations of this code and administrating the rights and responsibilities code. The term also includes a college official designated by the student conduct officer to act on his/her behalf in matters related to this chapter.
- (18) "Student organization" means any number of students who have met the formal requirements of clubs and organizations.
- (19) "Trespass" means the definition of trespass as contained within chapter 9A.52 RCW, as now law or hereafter amended.

WAC 132N-121-040 Jurisdiction.

(1) The standards of conduct for students adopted herein apply to conduct that occurs on college premises, at college-sponsored activities, and to off-campus conduct as outlined below that adversely affects the well-being of the Clark College community and/or the pursuit of its objectives. Jurisdiction extends to locations in which students are engaged in official college activities including, but not limited to, foreign or domestic travel activities funded by ASCC, athletic events, training internships, cooperative and distance education, practicums, supervised work experiences or any other college-sanctioned social or club activities. Students are responsible for their conduct from the time of application for admission through the actual receipt of a degree, even though conduct may occur before classes begin or after classes end, as well as during the academic year and during periods between terms of actual enrollment. These standards shall apply to a student's conduct even if the student withdraws from college while a disciplinary matter is pending. The vice-president of student affairs has sole

- discretion, on a case-by-case basis, to determine whether the code of student conduct will be applied to conduct occurring off campus.
- (2) Faculty members, college employees, students, and members of the public who breach or aid or abet another in the breach of any provision of this chapter shall be subject to:
 - (a) Possible prosecution under the state criminal law;
 - (b) Any other civil or criminal remedies available to the public; or
 - (c) Appropriate disciplinary action pursuant to the state of Washington personnel resource board rules, collective bargaining agreements, or the district's policies and regulations.
- (3) This chapter is not exclusive, and where conduct becomes known which may also violate any other rule or provision of law, nothing herein shall limit the right or duty of any person to report elsewhere or seek another remedy for that conduct.

WAC 132N-121-045 Students studying abroad.

Students who participate in any college-sponsored or sanctioned international study program shall observe the following:

- (1) The laws of the host country;
- (2) The academic and disciplinary regulations of the educational institution or residential housing program where the student is studying;
- (3) Any other agreements related to the student's study program in another country; and
- (4) Clark College's standards of conduct for students.

WAC 132N-121-050 Student rights.

As members of the academic community, students are encouraged to develop the capacity for critical judgment and to engage in an independent search for truth. Freedom to teach and freedom to learn are inseparable facets of academic freedom. The freedom to learn depends upon appropriate opportunities and conditions in the classroom, on the campus, and in the larger community. Students should exercise their freedom with responsibility. The responsibility to secure and to respect general conditions conducive to the freedom to learn is shared by all members of the college community.

The following enumerated rights are guaranteed to each student within the limitations of statutory law and college policy which are deemed necessary to achieve the educational goals of the college:

- (1) Academic freedom.
 - (a) Students are guaranteed the rights of free inquiry, expression, and assembly upon and within college facilities that are generally open and available to the public.
 - (b) Students are free to pursue appropriate educational objectives from among the college's curricula, programs, and services, subject to the limitations of RCW 28B.50.090 (3)(b).
 - (c) Students shall be protected from academic evaluation which is arbitrary, prejudiced, or capricious, but are responsible for meeting the standards of academic performance established by each of their instructors.
 - (d) Students have the right to a learning environment which is free from unlawful discrimination, inappropriate and disrespectful conduct, and any and all harassment, including sexual harassment.
- (2) Due process.
 - (a) The rights of students to be secure in their persons, quarters, papers, and effects against unreasonable searches and seizures is guaranteed.

- (b) No disciplinary sanction may be imposed on any student without notice to the accused of the nature of the charges.
- (c) A student accused of violating this code of student conduct is entitled, upon request, to procedural due process as set forth in this chapter.

WAC 132N-121-060 Grounds for discipline.

Discipline may be imposed for the commission or attempted commission (including aiding or abetting in the commission or attempted commission) of the following types of misconduct, as well as such other violations as may be specified in college regulations:

- (1) Obstruction or disruption of:
 - (a) Any instruction, research, administration, disciplinary proceeding, or other college activity, whether occurring on or off college property; or
 - (b) Any other authorized noncollege activity when the conduct occurs on college premises.
- (2) Assault, physical abuse, verbal abuse, threats, intimidation, harassment, coercion, or other conduct which harms, threatens, or endangers the health or safety of any person.
- (3) Attempted or actual damage to, theft of, or misuse of real or personal property of:
 - (a) The college or state;
 - (b) Any student or college officer, employee, or organization; or
 - (c) Any other person or organization lawfully present on college property; or possession of stolen property.
- (4) Unauthorized possession or unauthorized use of college equipment and supplies including, but not limited to, converting college equipment or supplies for personal gain or use without proper authority.
- (5) Failure to comply with the directions of a college officer or employee who is acting in the legitimate performance of his/her duties, and/or failure to properly identify oneself to these persons when requested to do so.
- (6) Participation in any activity which unreasonably disrupts the operations of the college or infringes on the rights of another member of the college community, or leads or incites another person to engage in such an activity.
- (7) Possession or use of firearms, explosives, dangerous chemicals or other dangerous weapons which can be used to inflict bodily harm or to damage real or personal property is prohibited on the college campus, at any other facilities leased or operated by the college, or at any activity under the administration or sponsorship of the college.

 Exceptions to this policy are permitted when the weapon is used in conjunction with an approved college in-
 - Exceptions to this policy are permitted when the weapon is used in conjunction with an approved college instructional program, is carried by duly constituted law enforcement officer, or is otherwise permitted by law.
- (8) Hazing. Any method of initiation into a student club or organization, or any pastime or amusement engaged in with respect to such a group or organization that causes, or is likely to cause, bodily danger or physical harm, or serious mental or emotional harm, to any student or other person attending the college as described in RCW 28B.10.900.
- (9) Initiation violation. Conduct associated with initiation into a student club or organization, or any pastime or amusement engaged in with respect to such a group or organization, not amounting to a violation of RCW 28B.10.900. Conduct covered by this section may include embarrassment, ridicule, sleep deprivation, unprotected speech amounting to verbal abuse, or personal humiliation.
- (10) Use, possession, delivering, selling or being under the influence of alcoholic beverages, except at sanctioned events approved by the college president or designee and in compliance with state law; or public intoxication.
- (11) Use, possession, delivering, selling or being under the influence of legend drugs, including anabolic steroids,

- narcotic or any other controlled substance, except upon valid prescription by a licensed health care professional or practitioner.
- (12) Obstruction of the free flow of pedestrian or vehicular movement on college premises or at a college activity.
- (13) Conduct which is disorderly, lewd, or indecent, disturbing the peace, or assisting or encouraging another person to disturb the peace. Disorderly conduct includes, but is not limited to, any unauthorized use of electronic or other devices to make an audio or video record of any person while on college premises without his or her prior knowledge or without his or her effective consent, when such a recording is likely to cause injury or distress. This includes surreptitiously capturing images of another person in a gym, locker room, or restroom.
- (14) Discrimination on the basis of race, color, religion, creed, national origin, sexual orientation, mental, physical, sensory disability, age or sex, gender identity, gender expression, political affiliation, disabled veteran status, marital status, honorably discharged veteran or Vietnam-era veteran status.
- (15) Sexual harassment. This includes, but is not limited to, engaging in unwelcome sexual advances, requests for sexual favors, or other conduct of a sexual nature where such behavior offends the recipient or a third party, causes discomfort or humiliation, unreasonably interferes with a person's work or educational performance, or creates an intimidating, offensive, or hostile work or learning environment.
- (16) Stalking. Behavior or conduct either in person or through electronic communication in which a student willfully and repeatedly engages in a course of conduct directed at another person with the intent and/or reasonable effect of creating fear or emotional distress and where the college determines that such behavior or conduct serves no legitimate purpose.
- (17) Smoking or other tobacco usage is not permitted within the perimeter of Clark College property. This includes all college sidewalks, parking lots, landscaped areas, recreational areas, and buildings on Clark College property. See Clark College Administrative Procedures 510.030 for complete smoking/tobacco products policy.
- (18) Theft or abuse of computer facilities or information technology resources; use of computing facilities and resources to send obscene, abusive, harassing, or threatening messages; or violation of Student Computing Resources Policy. It is the obligation of students to be aware of their responsibilities as outlined in the Student Computing Resources Policy (http://www.clark.edu/student_services/computing_resources/policy.php).
- (19) Unauthorized possession, duplication, or other use of a key, keycard, or other restricted means of access to college property, or unauthorized entry onto or into college property.
- (20) Abuse or misuse of any of the procedures relating to the code of student conduct, including:
 - (a) Failure to obey the notice from the committee on student conduct or college official to appear for a meeting or hearing as part of the student conduct system.
 - (b) Willful destruction, falsification, distortion, or misrepresentation of information before the committee on student conduct or the student conduct officer.
 - (c) Disruption or interference with the orderly conduct of a committee on student conduct proceeding.
 - (d) Filing fraudulent charges or initiating a student conduct proceeding in bad faith.
 - (e) Attempting to discourage an individual's proper participation in, or use of, the student conduct system.
 - (f) Attempting to influence the impartiality of a member of the committee on student conduct prior to or during the course of a committee on student conduct proceeding.
- (g) Harassment (verbal or physical) or intimidation of a member of the committee on student conduct prior to, during, or after a student conduct code proceeding.
 - (h) Failure to comply with any term or condition of any disciplinary sanction(s) imposed under the standards of conduct for students.

- (i) Influencing or attempting to influence another person to commit an abuse of the student conduct code system.
- (21) Trespassing. Knowingly entering or remaining unlawfully in or on college premises or any portion thereof. Any person who has been given notice by a college official excluding him or her from all or a portion of college premises is not licensed, invited, or otherwise privileged to enter or remain on the identified portion of college premises, unless given prior explicit written permission by a college official.
- (22) Operation of any motor vehicle on college property in an unsafe manner or in a manner which is reasonably perceived as threatening the health or safety of another person.
- (23) Violation of any federal, state, or local law, rule, or regulation.
- (24) Aiding, abetting, inciting, encouraging, or assisting another person to commit any of the foregoing acts of misconduct.
- (25) Tampering with an election conducted by or for students.

WAC 132N-121-062 Academic dishonesty.

Acts of academic dishonesty include:

- (1) Cheating, which includes using, or attempting to use, any material, assistance, or source which has not been authorized by the instructor to satisfy any expectation or requirement in an instructional course; an act of deceit by which a student attempts to misrepresent academic skills or knowledge; unauthorized or attempted unauthorized copying or collaboration; or acquiring, without permission, tests or other academic material belonging to a member of the college faculty or staff.
- (2) Plagiarism, which includes using another person's ideas, words, or other work in an instructional course without properly crediting that person. It also includes the unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials.
- (3) Submitting information that is known to be false (while concealing that falsity).
- (4) Forgery, alteration or misuse of any instrument of identification or any document or record used by the college.
- (5) Fabrication, which is the intentional misrepresentation, invention or counterfeiting of information in the course of an academic activity. Fabrication includes:
 - (a) Counterfeiting data, research results, information, or procedures with inadequate foundation in fact;
 - (b) Counterfeiting a record of internship or practicum experiences;
 - (c) Submitting a false excuse for absence or tardiness;
 - (d) Unauthorized multiple submission of the same work; sabotage of others' work.
- (6) Engaging in any behavior specifically prohibited by a faculty member in the course syllabus or class discussion.
- (7) Collusion. Facilitating dishonesty, failing to report known incidents of academic dishonesty; assisting another to commit an act of academic dishonesty, such as paying or bribing someone to acquire a test or assignment, or increase the score on a test or assignment; taking a test or doing an assignment for someone else; participating in obtaining or distributing any part of a test or any information about a test; or allowing someone to do these things for one's own benefit.
- (8) Knowingly furnishing false information to any college official, faculty member, or office including, but not limited to, submission of fraudulent transcripts from other institutions.
- (9) Acts of academic dishonesty will be reported by the faculty member to the vice-president of student affairs' designated student conduct officer.

WAC 132N-121-065 Trespass.

The vice-president of student affairs or designee shall have the authority and power to:

- (1) Prohibit the entry, or withdraw the license or privilege of any person or group of persons to enter onto or remain in any college property or facility; or
- (2) Give notice against trespass by any manner provided by law, to any person, persons, or group of persons against whom the license or privilege has been withdrawn or who have been prohibited from, entering onto or remaining upon all or any portion of college property or a college facility; or
- (3) Order any person, persons, or group of persons to leave or vacate all or any portion of college property or a college facility.

Such power and authority may be exercised to halt any event which is deemed to be unreasonably disruptive of order or impedes the movement of persons or vehicles or which disrupts or threatens to disrupt the ingress and/or egress of persons from facilities owned and/or operated by the college. Any individual remaining on or reentering college property after receiving notice that his or her license or privilege to be on that property has been revoked shall be subject to disciplinary action and/or charges of criminal trespass.

WAC 132N-121-070 Disciplinary sanction.

The following sanctions may be imposed by the student conduct officer on any student found to have violated the code of student conduct. In the case of minors, misconduct may be referred to parents or legal guardians pursuant to Family Educational Rights and Privacy Act (FERPA) guidelines. More than one sanction may be imposed for any one violation.

- (1) Warning. Notice to a student, either verbally or in writing, by the student conduct officer that the student has failed to satisfy the college's expectations regarding conduct. Such warnings will include a statement that continuation or repetition of the specific conduct involved or other misconduct may be cause for more serious disciplinary action. There shall be no appeal from a warning.
- (2) Reprimand. Formal action censuring a student for violating the student code of conduct. Reprimands shall be made in writing to the student by the student conduct officer. A reprimand indicates to the student that continuing or repeating the specific conduct involved or other misconduct will result in more serious disciplinary action. There shall be no appeal from a reprimand.
- (3) Disciplinary probation. Formal action placing conditions upon the student's continued attendance. Notice shall be in writing and shall specify the period of probation and the conditions, such as limiting the student's participation in extracurricular activities. Probation may be for a specific term or may extend to graduation or other termination of the student's enrollment in the college. A student on probation is not eligible to run for or hold an office in any student organization. Repetition of the conduct which resulted in probation or failure to complete conditions of probation during the probationary period, may be cause for suspension or other disciplinary action.
- (4) Loss of privileges. Denial of specified privileges for a designated period of time. Violation of any conditions in the written notice of loss of privileges may be cause for further disciplinary action.
- (5) Suspension. Temporary dismissal from the college and termination of student status. Notice shall be given in writing and specify the duration of the dismissal and any special conditions that must be met before readmission. Refund of tuition or fees for the quarter in which disciplinary action is taken shall be in accordance with the college's refund policy.
- (6) Expulsion. Permanent termination of a student's status. Notice must be given in writing. The student may also be barred from college premises. There shall be no refund of tuition or fees for the quarter in which the action is taken but fees paid in advance for a subsequent quarter will be refunded.
- (7) Restitution. Requirement of a student to compensate for damage or loss to college or other property, or perform a public service activity. Failure to make restitution within the time limits established by the student conduct

- officer will result in suspension for an indefinite period of time. A student may be reinstated upon payment or completion of the required service activity.
- (8) Education. The college may require the student to complete an educational requirement directly related to the violation committed, at the student's expense.
- (9) Revocation of admission or degree. Admission to or a degree awarded from the college may be revoked for fraud, misrepresentation, or other violation of standards of conduct for students in obtaining the degree, or for other serious violations committed by a student prior to graduation.
- (10) Withholding degree. The college may withhold awarding a degree otherwise earned until the completion of the process set forth in this chapter, including the completion of all sanctions imposed.
- (11) No trespass order. A student may be restricted from college property based on his/her misconduct.
- (12) Assessment. The student may be required to have an assessment at the student's expense, such as alcohol/drug or anger management, by a certified professional, and complete the recommended treatment. The student will sign all necessary releases to allow the college access to the assessment. Recommendations as part of an assessment may be included as required conditions of a disciplinary probation, suspension, or reinstatement after a period of suspension.
- (13) Loss of recognition. A student organization's recognition may be withheld permanently or for a specific period of time. Loss of recognition is defined as withholding college services or administrative approval from a student organization. Services and approval to be withdrawn include intramural sports, information technology services, college facility use and rental, and involvement in organizational activities.
- (14) Hold on transcript or registration. This is a temporary measure restricting release of a student's transcript or access to registration. Upon satisfactory completion of the conditions of the sanction, the hold is released.
- (15) No contact order. A prohibition of direct or indirect physical, verbal, or written contact (to include electronic) with another individual or group.
- (16) Other than college expulsion or revocation or withholding of a degree, disciplinary sanctions are not made part of the student's academic record, but are part of the student's disciplinary record.
- (17) If a student's behavior is found to have been motivated by another's race, color, religion, creed, national origin, sexual orientation, mental, physical, sensory disability, age, sex, gender identity, gender expression, political affiliation, disabled veteran status, marital status, honorably discharged veteran or Vietnam-era veteran status, such finding is considered an aggravating factor in determining a sanction for such conduct.
- (18) Violation of any term or condition of any disciplinary sanction constitutes a new violation and may subject the student to additional sanctions.
- (19) A disciplinary sanction, except a warning, shall be imposed through written notice either personally delivered or sent to the student's last known address of record by regular mail or certified mail. Each notice of disciplinary action shall state:
 - (a) A reasonable description of the facts on which the action is based;
 - (b) The provision(s) of the student conduct code found to have been violated;
 - (c) The sanction(s) imposed; and
 - (d) The student's right to appeal a disciplinary action, except for a warning or reprimand.

WAC 132N-121-080 Initial disciplinary proceedings. (see page F27 for chart)

(1) Any member of the college community may file a written complaint alleging that a student has committed a violation of the code of student conduct with the office of the vice-president of student affairs. The complaint should state specifically the alleged violation and summarize the supporting evidence. If the student conduct officer determines the complaint has merit, the student conduct officer shall initiate disciplinary proceedings. The

- student may be placed on suspension pending commencement of disciplinary action, pursuant to the conditions set forth in WAC 132N-121-150.
- (2) A student accused of violating the code of student conduct shall be notified of an initial disciplinary proceeding and the opportunity to meet with the student conduct officer to resolve the case without a formal hearing. The student shall be provided with written notice including the specific complaint, the policy, procedure, or section of the code of student conduct allegedly violated, and the range of possible sanctions which might result from disciplinary proceedings. The student will be given seven days to respond. If the student fails to respond or fails to appear, the initial disciplinary hearing may be held in the student's absence and shall not preclude the student conduct officer from making a decision and imposing or recommending sanctions.
- (3) After considering the evidence in the case, and interviewing the student, if the student has appeared at the scheduled meeting, and reviewing the case with any new information, the student conduct officer may take any of the following actions:
 - (a) Terminate the proceedings and exonerate the student;
 - (b) Dismiss the case after whatever intervention and advice is deemed appropriate;
 - (c) Impose any of the disciplinary sanctions from WAC 132N-121-070.

WAC 132N-121-090 Appeals. (see page F28 for chart)

- (1) A student may appeal any disciplinary sanction imposed by the student conduct officer, other than warning or reprimand, by filing a written request with the chair of the committee on student conduct, within seven days from the date of receipt of the decision.
- (2) The request should state clearly whether the student is requesting the appeal to be heard as a brief adjudicative proceeding informally by the chair of the committee on student conduct or for the appeal to be conducted formally by the entire committee membership, in an adjudicative proceeding according to RCW 34.05.410. Appeals from a suspension or expulsion from the college shall be heard in an adjudicative proceeding.
- (3) Appeals conducted as a brief adjudicative proceeding.
 - (a) Where an adjudicative proceeding is neither required by law nor requested by the student or the college, the matter may be resolved informally in a brief adjudicative proceeding conducted in accordance with RCW 34.05.485. Brief adjudicative proceedings shall be conducted in any manner which will bring about a prompt, fair resolution of the matter. The chair of the committee on student conduct shall serve as the sole presiding officer of the brief adjudicative proceeding. The presiding officer shall give each party an opportunity to be informed of the college's view on the matter and the student's view of the matter. No witnesses may appear to testify. Within ten days of the brief adjudicative proceeding, the chair shall render a written decision which will include a brief statement of the reasons for the decision. This shall be an initial order. If no further administrative review is requested, the initial order shall become the final order.
 - (b) Within twenty-one days after the initial order has either been personally delivered or sent to the student's last known address of record by regular mail or certified mail, he or she may petition for administrative review by the vice-president of student affairs or designee. A copy of the petition must be served on all parties or their representatives at the time the petition is filed. The reviewing officer may be the vice-president or an administrator who has not been involved in the action. The review shall be governed by RCW 34.05.491. The decision of the vice-president of student affairs or designee is final and no further administrative review is available.
- (4) Appeals conducted as adjudicative proceedings by committee on student conduct. In all cases where the student is appealing suspension or expulsion from the college, the student shall be entitled to an adjudicative proceeding under WAC 132N-121-110 if he or she files a proper written application for such a proceeding. The vice-president of student affairs shall be responsible for convening the committee on student conduct, setting the time and place of the hearing, and providing notice of the hearing as prescribed in RCW 34.05.434.

- (5) A decision of the committee on student conduct or a sanction imposed by the student conduct officer may be appealed in writing to the president within ten days following receipt of the committee decision.
 - (a) Except as required to explain the basis of new information, an appeal to the president is limited to a review of the verbatim record of the committee hearing and supporting documents for one or more of the following purposes:
 - (i) To determine whether the committee on student conduct hearing was conducted fairly in light of the charges, and whether information was presented in conformity with prescribed procedures giving the accused student a reasonable opportunity to prepare and to present a response to the allegations. Deviations from designated procedures are not a basis for sustaining an appeal unless significant prejudice is evident.
 - (ii) To determine whether the decision is supported by the evidence.
 - (iii) To determine whether the sanctions imposed are appropriate for the violation which the student was found to have committed.
 - (iv) To consider new information, sufficient to alter a decision, or other relevant facts not disclosed in the original hearing because such information and/or facts were not known to the student appealing at the time of the committee on student conduct hearing.
 - (b) The president shall review the record within fifteen days of the notice of appeal and make one of the following determinations:
 - (i) Affirm the decision and uphold the sanctions; or
 - (ii) Reverse the decision; or
 - (iii) Affirm the decision and modify the sanctions imposed.
 - (c) The president shall provide a written conclusion to all parties within twenty days after completion of his or her review.
 - (d) If the appeal is upheld, the matter shall be returned to the committee on student conduct to reopen the hearing to reconsider of the original determination and/or sanctions.
 - (e) If the appeal is not upheld, the president's decision shall be final.

WAC 132N-121-100 Committee on student conduct.

- (1) The committee on student conduct consists of five members. The committee shall provide a fair and impartial hearing and will make decisions on all disciplinary decisions appealed to it. The committee shall include:
 - (a) Two full-time students and two alternates appointed by the ASCC of Clark College vice-president of elections and appointments (one-year appointments);
 - (b) Two faculty members and two alternates appointed by the president or designee (two-year appointments, staggered terms);
 - (c) One member of the administration, but not the vice-president of student affairs, and one alternate appointed by the president of the college (two-year appointment).
- (2) Appointments to the committee will be made no later than November 1 of each academic year. Vacancies on the committee shall be filled as they arise.
- (3) Hearings may be heard by a quorum of three members of the committee so long as a faculty member and one student are included on the hearing panel. If the case involves academic dishonesty, at least two of the individuals hearing the case must be members of the faculty. The vice-president of student affairs shall appoint the chair and that person will continue in office until he or she resigns or is recalled by the vice-president of student affairs. The vice-president for student affairs may appoint a special presiding officer to the committee on student

- conduct in complex cases or in any case in which the student is represented by legal counsel. Special presiding officers may participate in committee deliberations but shall not vote.
- (4) Members of the committee on student conduct shall not participate in any case in which they are a defendant, complainant, or witness, in which they have direct or personal interest, prejudice, or bias, or in which they have acted previously in an advisory capacity. Any party may petition for disqualification of a committee member pursuant to RCW 34.05.425(4).

WAC 132N-121-110 Hearing procedures before the committee on student conduct.

- (1) An appeal before the committee on student conduct will be conducted as an adjudicative proceeding in accordance with RCW 34.05.413 through 34.05.476. The committee on student conduct shall commence the hearing within fifteen days after the written request has been received. The office of the vice-president of student affairs will notify the parties of the time and place of the hearing. The time limit for scheduling the hearing may be extended at the discretion of the vice-president of student affairs.
- (2) The presiding officer shall be the chair of the committee on student conduct. The presiding officer is responsible for:
 - (a) Regulating the course of the hearing in accordance with RCW 34.05.449 and applicable college rules;
 - (b) Taking whatever steps are necessary during the hearing to ensure that the process is conducted in a respectful and orderly manner; and
 - (c) Issuing and signing the written decision(s) of the committee.
- (3) The presiding officer is authorized to conduct prehearing conferences and/or to make prehearing decisions concerning the extent and forms of any discovery, the possibility of obtaining stipulations, admissions, settlement, and other procedural matters.
- (4) All procedural questions are subject to the final decision of the presiding officer. If a challenge arises concerning the application of any rule or policy, the hearing will continue and the challenge may be submitted by the chair in writing to the vice-president of student affairs, who will seek legal advice from an assistant attorney general.
- (5) The student has a right to a fair and impartial hearing. However, the student's failure to answer the charges, appear at the hearing or cooperate in the hearing shall not preclude the committee on student conduct from making its findings of facts, conclusions, and recommendations. This shall not limit the possibility of a default pursuant to RCW 34.05.440.
- (6) Hearings shall be closed in accordance with FERPA, 20 U.S.C. Sec. 1232g, unless the student waives this requirement in writing and requests to have the hearing open to the public. However, if education records or information from education records will be disclosed at the hearing, or more than one student is involved, the hearing will remain closed unless all students have consented to open the hearing. In hearings involving more than one accused student, the presiding officer may permit joint or separate hearings. If at any time during the hearing, a visitor disrupts the proceedings, the presiding officer may exclude that person from the hearing.
- (7) The complainant, the student, and their respective advisors may attend those portions of the appeal hearing at which information is received, but may not attend the committee's deliberations. Admission of any other person to the hearing is at the discretion of the presiding officer.
- (8) The student and complainant are entitled to be assisted by an advisor of their choosing, at their own expense. The complainant and student are responsible for presenting their own information, therefore, an advisor is not permitted to address the committee or participate directly in the hearing. An advisor may communicate only with the person they are advising. A student should select as an advisor a person whose schedule allows attendance at the scheduled date and time for the hearing. Delays or continuances will not be allowed due to the scheduling conflicts of an advisor. If the student is the subject of a pending subsequent criminal matter arising out of the same circumstances, the student may be allowed to have an attorney serve as their advisor, at the student's own expense, to behave in the same manner as any other advisor.

- (9) Formal rules of process, procedure, and/or technical rules of evidence such as are applied in criminal or civil cases, will not apply in student conduct proceedings.
- (10) (a) The student is entitled to present evidence in his or her behalf and to cross-examine witnesses testifying on behalf of the college. The student is responsible for informing his or her witnesses of the time and place of the hearing.
 - (b) Direct examination, cross-examination, and rebuttal may be limited to the extent necessary for the full disclosure of all relevant facts and issues.
 - (c) The committee may receive sworn written testimony in lieu of oral testimony at the hearing.
 - (d) If not inconsistent with this subsection, the presiding officer may refer to the Washington Rules of Evidence as guidelines for evidentiary rulings in accordance with RCW 34.05.452.
 - (e) In determining the appropriate sanction that should be recommended, evidence of past misconduct that the presiding officer deems relevant may be considered.
- (11) Members of the committee on student conduct must avoid ex parte (one-sided) communications with any party involved in the hearing regarding any issue other than communications necessary to maintain an orderly procedural flow to the hearing.
- (12) There will be a single verbatim record, such as a tape recording or transcript, of the information gathering portion of the hearing. Deliberations shall not be recorded. The record shall be the property of the college.

WAC 132N-121-112 Decision by the committee on student conduct and notification.

- (1) At the conclusion of the hearing and deliberations, the committee on student conduct shall meet in closed session to consider all evidence presented and decide by majority vote whether the student has violated the code of student conduct, and if so, the committee determines and imposes the appropriate sanctions from WAC 132N-121-070.
- (2) The burden of proof that guides the committee's decision is the preponderance of evidence, whether it is more likely than not that the student violated the code of student conduct.
- (3) The committee's written decision shall include findings of fact and conclusions which inform the parties of the basis for the decision. The decision should also include information about the appeal process.
- (4) The presiding officer notifies the student in writing, in person, by mail or electronic mail of the committee's decision. Notice is sent within ten days after the hearing is concluded. If the college is not in session, this period may be reasonably extended.
- (5) The written decision of the committee shall become the final order, without further action, unless within ten days following receipt of the decision, the student files a written appeal with the college president.

WAC 132N-121-120 Recordkeeping.

- (1) The record in an adjudicative proceeding shall consist of all documents as required by law and as specified in RCW 34.05.476.
- (2) The office of the vice-president of student affairs shall maintain records of student grievance and disciplinary proceedings for at least six years.
- (3) The disciplinary record is confidential.
- (4) Students may request a copy of their own disciplinary record at their own reasonable expense by making a written request to the vice-president of student affairs. Personally identifiable student information is redacted to protect another student's privacy.

- (5) Students may authorize release of their own disciplinary record to a third party in compliance with FERPA, 20 U.S.C. Sec. 1232g, by making a written request to the vice-president of student affairs.
- (6) The college may inform the complainant of the outcome of any disciplinary proceeding involving a crime of violence or nonforcible sex offense, as permitted by FERPA, 20 U.S.C. Sec. 1232g; 34 C.F.R. Part 99.
- (7) The college may not communicate a student's disciplinary record to any person or agency outside the college without the prior written consent of the student, except as required or permitted by law. Exceptions include, but are not limited to:
 - (a) The student's parents or legal guardians may review these records if the student is a minor or a dependent, if the student is a minor and disciplinary action involves the use or possession of alcohol or controlled substance, or in connection with a health or safety emergency regardless if the student is a dependent or a minor, as permitted by FERPA, 20 U.S.C. Sec. 1232g; 34 C.F.R. Part 99.
 - (b) To another educational institution, upon request, where the student seeks to, intends to, or has enrolled.
 - (c) Information concerning registered sex offenders.

WAC 132N-121-150 Summary suspension proceedings.

- (1) Summary suspension is a temporary exclusion from specified college premises or denial of access to all activities or privileges for which the student might otherwise be eligible, during which an investigation and/or formal disciplinary procedures are pending.
- (2) The student conduct officer or designee may impose a summary suspension:
 - (a) In situations involving an immediate danger to the health, safety, or welfare of any part of the college community or the public at large;
 - (b) To ensure the student's own physical safety and well-being; or
 - (c) If the student poses an ongoing threat of disruption to, or interference with, the operations of the college and the student's conduct prevents other students, employees, or members of the college community from completing their duties as employees or students.
- (3) The student conduct officer or designee shall give the student oral or written notice of the reasons for the summary suspension, and of any possible additional disciplinary or corrective actions that may be taken. If oral notice is given, a written notification shall be personally served on the student, or sent to the student's last known address of record by regular or certified mail within two working days.
- (4) The notification shall be entitled "notice of summary suspension proceedings" and shall include:
 - (a) The charges against the student including reference to the provisions of the student conduct code or the law allegedly violated;
 - (b) The date, time, and location that the student must appear before the student conduct officer for a hearing on the summary suspension; and
 - (c) A notice against trespass that warns the student that his or her privilege to enter into or remain on college premises has been withdrawn, that the student shall be considered trespassing and subject to arrest for criminal trespass, if the student enters the college campus other than to meet with the student conduct officer or designee, or to attend the hearing.
- (5) The hearing on the summary suspension shall be held as soon as practicable after the summary suspension. The hearing may be combined with an initial disciplinary proceeding in accordance with WAC 132N-121-080.
- (6) The summary suspension does not replace the regular process, which shall proceed on the schedule described in this chapter, up to and through a hearing before the committee on student conduct, if required.

- (7) The student conduct officer or designee shall determine whether there is probable cause to believe that summary suspension is necessary and/or whether some other disciplinary action is appropriate.
- (8) The student shall have the opportunity to explain why summary suspension is not necessary either through oral testimony or written statement. If the notice to appear for a summary suspension hearing has been personally delivered to the student or sent to the student's last known address of record by regular mail, certified mail and the student fails to appear at the time designated, the student conduct officer or designee may enforce the suspension, and shall send written notice of summary suspension to the student at the last known address of record on file.
- (9) The student conduct officer or designee may continue the summary suspension and may impose any other disciplinary action that is appropriate, if he or she finds that there is probable cause to believe that:
 - (a) The student has committed one or more violations of the student conduct code;
 - (b) Such violation(s) constitute grounds for disciplinary action; and
 - (c) Summary suspension is necessary.
- (10) Notice of suspension.
 - (a) If summary suspension is upheld and/or if the student is otherwise disciplined, the student will be provided with a written copy of the student conduct officer or designee's findings of fact and conclusions that support the decision that summary suspension of the student should continue.
 - (b) The student suspended pursuant to the authority of this rule shall receive a copy of the "notice of suspension" either personally or sent to the student's last known address of record by regular mail, certified mail, within three days following the conclusion of the hearing with the student conduct officer or designee.
 - (c) The "notice of suspension" shall inform the student of the duration of the summary suspension or nature of the disciplinary action(s), conditions under which the summary suspension may be terminated or modified, and procedures by which the validity of the summary suspension can be appealed.
- (11) The student conduct officer or designee shall provide copies of the notice of suspension to all persons or offices that may be bound by it.

WAC 132N-121-151 Appeals from summary suspension hearing.

Any student aggrieved by an order issued at the summary suspension proceeding may appeal by filing a written request with the chair of the committee on student conduct within ten days from the date on which the student was notified of the decision. However, no such appeal shall be entertained, unless:

- (1) The student has first appeared through oral testimony or by a written statement at the student hearing in accordance with WAC 132N-121-150; and
- (2) The appeal conforms to the standards set forth in WAC 132N-121-090.

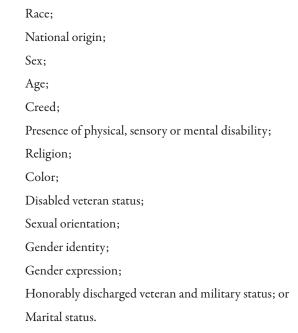
WAC 132N-121-500 Classroom misconduct and authority to suspend for no more than one day.

- (1) Faculty members have the authority to take appropriate action to maintain order and proper conduct in the classroom and to maintain the effective cooperation of students in fulfilling the objectives of the course.
- (2) Bringing any person, thing, or object to a teaching and learning environment that may disrupt the environment or cause a safety or health hazard, without the express approval of the faculty member is expressly prohibited.
- (3) Faculty members or college administrators have the right to suspend any student from any single class or related activity for no more than one instructional day, if the student's misconduct creates disruption to the point that it is difficult or impossible to maintain the decorum of the class, related activity or the learning and teaching environment. The faculty member or college administrator shall report this suspension to the vice-president of

student affairs or designee who, in consultation with the faculty member, may set conditions for the student upon return to the class or activity.

Discrimination and Harassment Grievance Procedure

Clark College affirms a commitment to freedom from discrimination for all members of the college community. The college expressly prohibits discrimination against any person on the basis of:



The responsibility for, and the protection of, this commitment extends to students, faculty, administration, staff, contractors, and those who develop or participate in college programs. It encompasses every aspect of employment and every student and community activity.

Persons who believe they have been discriminated against or harassed by Clark College or its employee(s) or agent(s) on the basis of any status listed above may request informal assistance and/or lodge a formal grievance.

The college president delegates investigation of grievances on the basis of race, sex, creed, religion, color, national origin, age, sexual orientation, gender identity, gender expression and/or marital status to:

Associate Vice President for Human Resources Baird Administration Building 360-992-2325

The college president delegates investigation of grievances on the basis of any physical, sensory or mental disability, or status as a disabled or Vietnam-era veteran to:

ADA Compliance Officer (ADACO)
Gaiser Hall
360-992-2580

TTY: 360-992-2835 VP: 360-991-0901

Definitions

Sexual harassment: A form of sex discrimination which involves the inappropriate introduction into the work or learning situation of sexual activities or comments that demean or otherwise diminish one's self-worth on the basis of sex. Unwelcome sexual advances, requests for sexual favors and other verbal or physical conduct of a sexual nature constitute sexual harassment under any of the following conditions:

- 1. When submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment or academic standing.
- 2. When submission to or rejection of such conduct by an individual is used as the basis for employment or academic decisions affecting such individual.
- 3. When such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile, offensive working or educational environment.

Sexual harassment often involves relationships of unequal power and contains elements of coercion—as when compliance with requests for sexual favors becomes a criterion for granting work, study, or grading benefits. However, sexual harassment may also involve relationships among equals, e.g., student to student, as when repeated sexual advances or demeaning verbal behavior have a harmful effect on a person's ability to study or work.

Sex discrimination: The process of making a distinction in favor of, or against, a person or persons on the basis of sex rather than on individual merit. If sex is taken into account when making a decision regarding an employee, except when it is a bona fide occupational qualification or is otherwise authorized by law, or if a person is sexually harassed, that person has been subjected to sex discrimination.

Racial harassment: Physical or verbal conduct that is maliciously intended to harass, intimidate, or humiliate a person or persons on account of race, color, or national origin and that causes severe emotional distress, physical injury or damage or destruction to the property of another, or threatens and places a specific person or group of persons in reasonable fear of harm.

Disabilities: People with disabilities are persons with a physical, mental, or sensory impairment which substantially limits one or more major life activities. An individual is disabled if that individual meets at least any one of the following tests: (i) the individual is substantially impaired with respect to a major life activity; or (ii) the individual has a record of such an impairment, or (iii) the individual is regarded as having such an impairment.

Disabled veteran: A person entitled to disability compensation under laws administered by the U.S. Department of Veterans Affairs, or a person whose discharge or release from active duty was for a disability incurred or aggravated in the line of duty.

Vietnam-era Veteran: A person who served on active duty for a period of more than 180 days, any part of which occurred between August 5, 1964, and May 7, 1975, and was discharged or released from duty with other than a dishonorable discharge.

No Retaliation

No one shall be singled out, penalized, or retaliated against in any way by a member of the college community for initiating or participating in a grievance procedure. Retaliation may be grounds for disciplinary action.

Grievance Procedure

Complaints should be filed within 180 days from the most recent incident. Where extraordinary circumstances are shown, the 180-day limit may be waived.

Step 1: Informal Meeting

In an attempt to informally resolve the concern, the complainant may request a meeting with the individual be-

lieved to have committed the discriminatory act (the respondent) or with the appropriate supervisor or president's designee. The time period in which attempts to informally resolve the concern are made shall not exceed thirty (30) working days from the time the complaint is lodged.

Step 2: Formal Grievance Procedure

The complainant may initiate a formal grievance. A formal grievance must be filed in writing and must set forth the specific grievance(s) raised by the complainant, including the dates, times, places, and circumstances surrounding the complaint. A form for this purpose is available; however, any written document is acceptable. Formal complaints may not be filed by e-mail.

Upon receipt of the grievance, an investigation will be conducted which includes, but is not limited to, interview(s) with the complainant, the respondent, and any additional persons necessary to determine the merit(s) of the complaint. The investigation should be completed within thirty (30) working days.

Upon completion of the investigation, a written report will be prepared, which includes findings and conclusions to the complainant and the respondent. The report may include a recommendation for appropriate disciplinary or corrective action, or the report may be sent to the designated vice president or administrator to determine appropriate disciplinary or corrective action. If the complaint is found to be false and malicious, notification will be given to the designated vice president or administrator for possible disciplinary action against the complainant.

Step 3: Presidential Appeal

If the complaint is not resolved at step 2, the complainant may appeal to the college president. The appeal must be made in writing within twenty-one (21) days after the report is issued.

Within twenty (20) days after receiving the appeal, the college president or the president's designee will conduct the presidential review and report the results in writing to both the complainant and the respondent. The college president may affirm or modify the report, remand the case for further investigation, or dismiss the appeal. The written results of the presidential review will be considered final.

No further intra-institutional appeal exists.

Inquiries or Appeals

If desired, inquiries or appeals beyond the Clark College level may be directed to:

Equal Employment Opportunity Commission 909 First Avenue, Suite 400 Seattle, WA 98104-1061 206-220-6883 206-220-6882 TTY www.eeoc.gov

Washington State Human Rights Commission 711 South Capitol Way, Suite 402 PO Box 42490 Olympia, WA 98504-2490 360-753-6770 800-300-7525 TTY www.hum.wa.gov

U.S. Department of Education Office for Civil Rights 915 Second Avenue, Room 3310 Seattle, WA 98174-1099 206-220-7900 206-226-7907 TTY www.ed.gov.ocr

Notification of Students' Rights Under the Family Education Rights and Privacy Act

Clark College conforms to the Family Educational Rights and Privacy Act (FERPA), as amended, which affords students certain rights as to their education records.

- 1. Students have the right to inspect and review their education records within 45 days of the day the college receives a written request for access. Students should submit to the registrar written requests that identify the record(s) they wish to inspect. The registrar will make arrangements for access and notify the student of the time and place where the record(s) may be inspected. If the records requested are not maintained in the Registrar's Office, the student will be advised of the correct official to whom the request should be addressed.
- 2. Students have the right to request the amendment of the education records that they believe are inaccurate or misleading. Students must write the college official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If the college decides not to amend the record as requested by the student, the college will notify the student of the decision and advise the student of the process by which the student may appeal the decision.
- 3. A student has the right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. With few exceptions (stated below), no one will have access to student records without the written consent of the student. Clark College will not release a student's record to a parent/guardian without the student's written permission. Such a policy is in effect regardless of the student's age or financial dependency upon the parent/guardian.
 - The college may release student directory information without student consent which includes student name, student address, student e-mail, date of birth, major field of study, quarters of attendance, degrees and awards received, participation in activities and sports, and weight and height of members of athletic teams. With regard to former students, such information also includes addresses for use by the Clark College Foundation.

Exceptions include school officials with a legitimate educational interest in a student's educational record. A school official is a person employed by the college in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the college has contracted (such as an attorney, auditor, collection agent, or the National Student Clearinghouse, an agency which acts as a clearinghouse for student loan deferment reporting); a person elected to the board of trustees; or a student serving on an official committee, such as a disciplinary or grievance committee. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility. Exceptions also include accrediting agencies; student financial aid agencies; those who require student information in an emergency situation in which someone's health or safety is at risk; Clark College also discloses educational records without consent to officials of baccalaureate institutions in which a student seeks to, or intends to, enroll.

In compliance with the Higher Education Amendments of 1998, the college is authorized to disclose information to a parent or guardian about any school disciplinary violation involving alcohol or a controlled substance which has been found to have been committed by a student who is under the age of 21.

Pursuant to the Solomon Amendment, Clark College is authorized to disclose the following directory information to the military for recruitment purposes: student's name, address, telephone listing, date of birth, academic major, and degrees received from Clark College.

Students who do not wish to have directory information released by the college must file a student directory restriction request with the Registrar's Office.

4. A student has the right to file a complaint with the U.S. Department of Education concerning alleged failures by Clark College to comply with the requirements of FERPA by writing to:

Family Policy Compliance Office U.S. Department of Education 600 Independence Ave. S.W. Washington, DC 20202-4605.

In some instances, records may be withheld by the college. Academic transcripts are routinely withheld if a student has a financial obligation to the college. The Security/Safety Office may request a hold on records if there is concern that such records may compromise a criminal investigation.

Copies of the complete FERPA policy may be obtained at the Registration Office.

Limitation of Liability

The college's total liability for claims arising from a contractual relationship with the student in any way related to classes or programs shall be limited to the tuition and expenses paid by the student to the college for those classes or programs. In no event shall the college be liable for any special, indirect, incidental, or consequential damages, including but not limited to, loss of earnings or profits.

Graduation Rates

Below is the federal graduation rate survey (GRS) information for student cohorts from 2003, 2004, 2005, and 2006 (as reported in Spring 2010). The federal graduation rate survey definitions pertain to a specific cohort of Clark College students: new students attending full time, with degree or certificate intentions, and without prior college experience.

Combined transfer out/completion/graduation rate, 4-year average: 40%

GRS completion or graduation rate, 4-year average: 23%

GRS transfer out rate, 4-year average: 17%

Clark College provides this information pursuant to the federal Student Right to Know Act so that prospective students can make informed decisions about the college they might wish to attend. For help in interpreting these data, contact the Office of Planning & Effectiveness, 360-992-2506.

National Center for Education Statistics website: nces.ed.gov/collegenavigator

Equity in Athletics

Clark College reports annually to the federal Department of Education concerning the number of male and female student athletes, support for men's and women's intercollegiate sports, financial aid available for male and female athletes, and other information. For a copy of the report, please contact the Athletic Department, O'Connell Sports Center, 360-992-2691.

Student Right to Know Information

All Consumer Information, also known as Student Right to Know Information, is available on the Clark College website at www.clark.edu/student services/consumer information/

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Initial Student Conduct Proceedings

Code of Student Conduct WAC 132N-121-080

Any member of the college community may file a written complaint alleging that a student has committed a violation of the code of student conduct.

The complaint is filed with the Office of the Vice President of Student Affairs.

If the student conduct officer determines the complaint or report has merit, the student conduct officer shall initiate disciplinary proceedings.

A student accused of violating the code of student conduct shall be notified in writing of an initial disciplinary proceeding and be given the opportunity to meet with the student conduct officer to resolve the case without a formal hearing.

If the student fails to respond or fails to appear, the initial disciplinary hearing may be held in the student's absence and does not preclude the student conduct officer from making a decision and imposing or recommending sanctions.

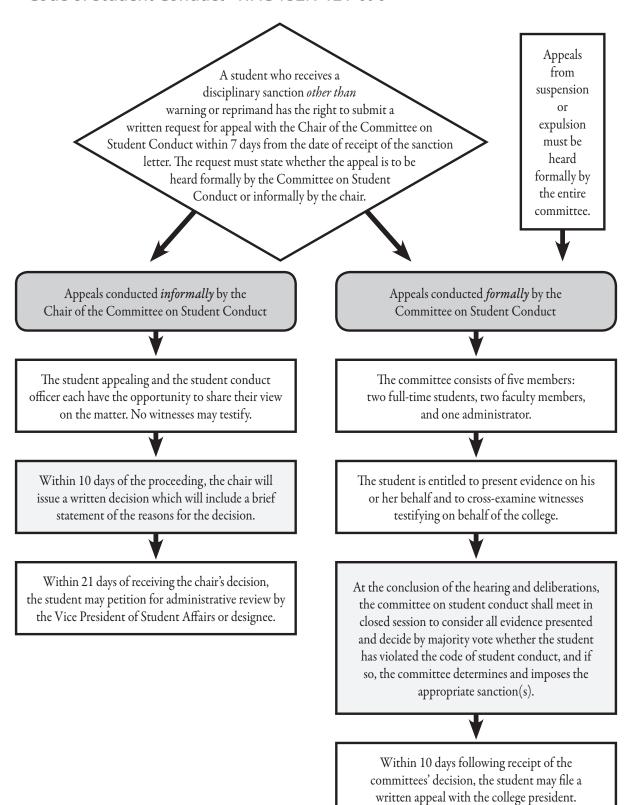
After considering the evidence in the case, the student conduct officer may take any of the following actions:

- (a) Terminate the proceedings and exonerate the student;
- (b) Dismiss the case after whatever intervention and advice is deemed appropriate;
 - (c) Impose any of the disciplinary sanctions from WAC 132N-121-070.

The student conduct officer informs the student in writing about decisions reached and any sanctions assigned. Appeal information is included in the letter.

Student Appeal Process

Code of Student Conduct WAC 132N-121-090



SECTION F: Directories and Academic Calendar

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Clark College Board of Trustees

Jack Burkman 2008 – 2013

B.S. in Mechanical Engineering, Montana State University Certified Professional Coach, Antioch University – Seattle

Mr. Burkman is a Vancouver City Councilmember. He most recently served as the SW Region Planning Manager for Washington State Department of Transportation. Prior to that, he worked for Hewlett Packard for nearly 28 years, including 21 years in Vancouver.

Community activities include:

- Member, SW Washington Regional Transportation Council
- Former vice president of Public Policy and member, YWCA Clark County Board of Directors
- Former chair and member, Fort Vancouver Regional Library Board of Trustees

Rhona Sen Hoss 2002 – 2012

B.A. Oklahoma State University

Ms. Sen Hoss is the community partnerships manager at The Columbian. Her position at the newspaper involves managing community and business events and forging partnerships with non-profit organizations such as local school districts, foundations and the YWCA Clark County.

Community activities include:

• Clark College Foundation

- WSU Vancouver Advisory Council
- Southwest Washington Medical Center Foundation capital campaign

Royce Pollard 2010 – 2011

B.S. in Secondary Education, University of Alabama

During his six terms as mayor of Vancouver, Wash., from 1996-2010, Royce Pollard shaped the development of downtown Vancouver including the revitalization of Esther Short Park and the dedication of the Hilton Vancouver Washington Hotel and Convention Center.

Community activities include:

• Board of Directors, Southwest Washington Red Cross
• Board Member, Bi-State Coordination Committee

Jada Rupley 2010 – 2015

B.A. in Psychology/Education, Central Washington University M.Ed. in School Administration, Seattle Pacific University Certified Superintendent, School Principal, School Psychologist

Jada Rupley is currently the Associate Superintendent of Educational Service District 112. She leads the Teaching and Learning department, serving the ESD's six regions and thirty school districts.

Community activities include:

• Clark County Skills Center Advisory

 Former Co-chair of the Washington Early Learning Advisory Council

Sherry W. Parker 2003 – 2013

A.A.S. Clark College

B.A. University of South Florida

Ms. Parker assumed the duties of county clerk of Clark County, Washington, in January 2007. She has worked for Clark County since 1991. She previously worked as secretary of the Data Processing Department at Clark College, where she also taught computer skills classes.

Community activities include:

- Past Executive Board Member and Past President, Salmon Creek Lions Club
- Member, City of Vancouver Transportation Finance Task Force

Clark College Executive Cabinet

William Belden (2010)

Vice President of Student Affairs B.A. Eastern Washington University M.Ed. Western Washington University

Shanda L. Diehl (2008)

Associate Vice President of Planning & Institutional Effectiveness B.A. Eastern Washington University M.P.H. University of Washington

Lisa Gibert, CFRE

President/CEO, Clark College Foundation B.S. University of Oregon M.B.A. University of California, Irvine

Leigh A. Kent (2007)

Executive Assistant to the President A.A., A.S. Holyoke Community College

Barbara Kerr (2004)

Executive Director of Communications & Marketing B.S. Ithaca College

Robert K. Knight (2004)

President B.S. United States Military Academy E.M.B.A. Golden Gate University

Darcy L. Rourk (2010)

Associate Vice President of Human Resources B.S., M.S., Ph.D. Kansas State University

Robert D. Williamson (2009)

Vice President of Administrative Services A.A. Ft. Steilacoom Community College B.A., M.A. Western Washington University

Clark College Administration

Sheryl A. Anderson (2002)

Director of Admissions & Assessment A.A. Southwestern Oregon Community College B.S. Southern Oregon University M.Ed. Colorado State University

Michelle M. Bagley (2008)

Director of Library Services and eLearning B.A. Minot State University M.L.S. Emporia State University

Andrew T. Barsotti (2008)

IT Application & Database Developer B.S. University of Wisconsin M.S. Washington State University, Pullman

Randall G. Blakely (2009)

Columbia Tech Center Building Administrator B.A., M.P.A. Portland State University Ed.D. Oregon State University

Edie N. Blakley (2008)

Director of Career & Employment Services A.A.S. Linn Benton Community College B.S., Ed.M. Oregon State University

Blake R. Bowers (2008)

Dean of Health Sciences B.S., M.S. Southern Oregon University Ph.D. Oregon State University

Ted J. Broussard (2004)

Dean of Student Success & Retention B.A. University of SW Louisiana M.A. Farfield University Certification Administration/Supervision, Southern CT State University

Linda S. Calvert (1979)

Associate Director of Running Start B.A. Washington State University

Laurie S. Cornelius (1982)

Director of Services for Children & Families B.A. University of Washington M.A. Pacific Oaks

Tara L.Cox (2010)

Marketing & Communications Manager for Corporate & Continuing Education B.A. University of Oregon

Dedra K. Daehn (2010)

Associate Director of Instructional Operations B.S. Kansas State University M.S. Fort Hays State University

Shelley Das (2008)

Director of Grants Development B.A. University of Calcutta M.A. Carleton University

David B. Daugherty (2000)

Associate Director of Information Technology Services A.A. Lane Community College B.S., M.S. University of Oregon

Jean M. Donovan (2010)

Associate Dean of Health Sciences B.A. Wheaton College M.S. Pace University, Graduate School of Nursing M.A.P.A., Ph.D. University of Virginia

Karen L. Driscoll (2008)

Director of Financial Aid B.S. Eastern Washington University

Cynthia L. Foreman (2009)

Associate Director of eLearning B.A. Oregon State University M.S. University of Massachusetts

Mark R. Gaither (2010)

e-Learning Instructional Designer B.S. Portland State University

Michelle L. Golder (2007)

College Community Events Manager B.S. University of Portland

James C. Green (2003)

Director of Plant Services

B.S.M.E. Oregon State University

M.S.M.E. Washington State University Vancouver

Jennifer R. Grove (2006)

Administrative Services Operations Manager

B.A. San Jose State University

M.S. Portland State University

Sarah K. Gruhler (2010)

Director of Student Life &

Multicultural Student Affairs

B.A. Western Washington University

M.Ed. Seattle University

Theresa L. Heaton (1977)

Executive Assistant to the

Vice President of Administrative Services

Genevieve Howard (2010)

Director of Instructional Planning & Innovation B.A. California State University, Bakersfield

M.A. California State University, Bakersfield

Miles V. Jackson (1998)

Dean of Social Sciences and Fine Arts

B.S. Portland State University

M.S. University of Washington

Tami L. Jacobs (1997)

Disability Support Services Manager

A.A.S. Portland Community College

B.A. Eastern Washington University

Vernon "Skip" A. Jimerson (1991)

Grounds Manager

Monica L. Knowles (1998)

Bookstore Buyer

A.A. Brooks College

Raymond T. Korpi (2000)

Dean of Basic Education, English,

Communications and Humanities

B.S., M.A. University of Nebraska, Lincoln

Ph.D. Washington State University

Tonya R. Lawrence (2006)

Tech Prep & Apprenticeship Program Manager

B.A. California State University, Chico

M.Ed. Southwest Texas State University

Blue Linden (2007)

Facilities Maintenance Manager

LME/Portland Community College

Andrew J. Long (2009)

Director of Advising

B.A. University of Essex

M.A. California State University, Los Angeles

Kimberly A. Marshel (2008)

Registrar

B.S., W.S.CT., M.S. Portland State University

Rebecca J. Merritt (1997)

Student Eligibility Programs Manager

B.A. University of Arizona

M.N.M. Regis University

A. Barbara Miller (2007)

Executive Assistant to the

Vice President of Instruction

Kathy A. Murphy (2008)

Executive Assistant to the Executive

Director of Communications & Marketing

Cynthia L. Myers (2007)

Director of Nursing

A.D.N. Clark College

B.S.N. Washington State University, Vancouver

Janet F. Novak (2009)

Corporate Education Program Manager

B.S. DeVry University

Cindi M. Olson (1999)

Executive Assistant to the

Vice President of Student Development

Shelley R. Ostermiller (2010)

Advising Divisional Manager

A.A. Clark College

B.A. Washington State University, Vancouver

Ken J. Pacheco (2004)

Director of Security & Safety B.A. Providence College M.S. University of New Haven

Felisciana K. Peralta (2008)

Multicultural Retention Manager B.A. Central Washington University M.Ed. Heritage University

Paul J. Raines (2009)

Custodial Services Manager

Tracy B. Reilly-Kelly (1998)

Mature Learning Program Manager B.A. The Evergreen State College M.S. Portland State University

J. Brian Scott (2005)

Director of Marketing B.A. University of Oregon B.S. Portland State University

Philip N. Sheehan (1976)

Director of Information Technology Services A.A., A.A.S. Clark College B.A. University of Washington M.B.A. Marylhurst University

Suzanne C. Smith (2010)

Student Learning Center Program Manager A.S. Utah Valley State College B.A. Washington State University, Vancouver

Julie F. Taylor (2005)

Administrative Secretary

Patrick D. Taylor (1998)

Network Systems Manager

Sue A. Williams (1996)

Associate Director of Human Resources

A.A.S. Clark College

B.A. Washington State University, Vancouver

Tiffany F. Williams (2009)

Workforce Pathways Manager B.S. East Carolina University

Karen J. Wynkoop (2005)

Director of Business Services

B.A. The Evergreen State College

M.A. Gonzaga University

Clark College Faculty

George H. Akau, Jr. (1974)

Culinary Arts

A.A. City College of San Francisco B.S., M.Ed. Portland State University

Judith E. Alleman (2008)

Nursing

B.S. California State University M.S. Oregon Health Sciences

Jacqueline F. Allen-Bond (2000)

English as a Second Language

B.A. University of Victoria, Canada

M.A. School for International Training, Brattleboro

Donald L. Appert (1990)

Music

B.M., M.M. New England Conservatory

D.M.A. University of Kansas

Michael D. Arnold (1989)

Exercise Science, Physical Education

A.S. North Country Community College

B.S.E. Northwest Missouri State University

M.S. Northeast Missouri State University

Certified Strength and Conditioning Specialist

Karl L. Bailey (2006)

Chemistry

B.S. California Polytechnic State University

Ph.D. University of California, Davis

Radmila Ballada (2008)

Technical Services and Systems Librarian

B.A. University of Vermont

M.A., M.L.S. Southern Connecticut State University

Kristine T. Barker (1993)

Mathematics

B.A. Willamette University

M.A. University of Oregon

Kayoko Y. Barnhill (1994)

Mathematics

B.A.S. University of California, Davis

M.A. California State University, Sacramento

Christina Colby Barsotti (1992)

Engineering

B.S., M.S. Washington State University

Carol L. Beima (1999)

Adult Basic Education

B.A. Wittenburg University

M.Ed University of Washington

Aaron S. Bingham (1994)

Mathematics

B.A. University of California, Los Angeles

M.A. California State University, Sacramento

Deena M. Bisig (2008)

Communications Studies

B.A. Dana College

M.S. South Dakota State University

Kathy A. Bobula (1982)

Early Childhood Education & Psychology

B.S., M.S. Ohio State University

Ph.D. Portland State University

Mark E. Bolke (2000)

Biology

B.S., M.S. Portland State University

Lisa A. Borho (1997)

Physical Education

B.S., M.S. University of Illinois

Veronica P. Brock (1995)

Health & Fitness

B.S. Eastern Washington University

M.S. East Stroudsburg University

Susan K. Brookhart (2006)

Chemistry

B.A. Amherst College

M.S. California Institute of Technology

Laurie H. Brown (2002)

Nursing-Pediatrics

A.S. Golden West College

A.S. Cypress College

B.S.N. California State University, Fullerton

M.P.A. Portland State University

M.S.N. Washington State University

Ray L. Burns (2001)

Mathematics

A.A. Frank Phillips College

B.S., M.S. Texas Tech University

Joan E. Carey (1994)

Librarian

B.S. University of Vermont

M.S.L.S. Simmons College

Rita M. Carey (1991)

English

B.A. Marylhurst College

M.A. University of Oregon

Ph.D. Florida State University

Paul A. Casillas (1990)

Mathematics

B.A. Augustana College, Illinois

M.A. University of Iowa

M.S. University of Oregon

Carlos J. Castro (2006)

Sociology

B.A., M.A., M.C.R.P., Ph.D.

University of Oregon

Michael V. Ceriello (2007)

Political Science

B.A. University of California, Santa Barbara

M.A. Western Washington University

Geneva E. Chao (2006)

English

B.A. Barnard College of Columbia University

M.A., M.F.A. San Francisco State University

Anthony J. Chennault (2008)

Biology

B.A. University of Puget Sound

M.S. Portland State University

John M. Clausen (1987)

Medical Office Technology

B.S. Portland State University

R.R.A. American Medical Record Association

Valerie S. Cline (2011)

Nursing

A.D.N. Clark College

B.S.N. Washington State University, Vancouver

M.S.N. Walden University

Lisa E. Conway (2003)

Arr

B.F.A. University of Michigan

M.F.A. Louisiana State University

Tim S. Cook (1997)

Counselor of Student Success/Retention

B.S. Western Oregon State College

M.A. Lewis and Clark College

Ph.D. Oregon State University

James M. Craven (1992)

Economics & Geography

B.A., M.A. University of Manitoba

William T. Cushwa (1995)

Biology

B.S. Virginia Polytechnic Institute

and State University

M.S., Ph.D University of California, Davis

Jill C. Darley-Vanis (2006)

English

B.A. Oregon State University

M.A. Portland State University

Marylynne Diggs (1998)

English

B.A. University of Alabama

M.A., Ph.D. University of Oregon

Roxanne L. Dimyan (1997)

Librarian

B.A., M.L.S. University of Washington

Laurits G. Dixon (1994)

Nursing

B.S.N. California State University, Sacramento

M.S.N. University of Texas, San Antonio

April B. Duvic (2009)

Music

B.A. Whitman College

M.S.T. Portland State University

Mark L. Elliott (1994)

Mathematics

B.S., M.S. Portland State University

Rebecca L. Ellis (2007)

Nursing

B.S.N. University of Alabama, Birmingham

M.N. Washington State University, Vancouver

Charles L. Epton (1969)

Philosophy

B.A., M.A. University of Washington

Donald E. Erskine (1988)

Technical Writing

B.A. University of Illinois

M.A. University of Michigan

Mary E. Evens (2000)

Business Technology

B.A. Central Washington University

M.A. Pepperdine University

Nadine L. Fattaleh-Diggs (2002)

Chemistry-General

B.A. Scripps College

M.S. Carnegie Mellon University

Anita L. Fisher (1990)

History & Political Science

B.A., M.A. University of Portland

Ph.D. University of Oregon

John L. Fite, Jr. (2007)

Economics

B.S. United States Air Force Academy

M.A. Georgetown University

Nicholas C. Forrest (1996)

Political Science

B.A. St. Joseph's College

M.A., Ph.D. Northwestern University

Van A. Forsyth (1995)

History

B.A. University of California, Berkeley

M.A. San Francisco State University

Marina B. Frost (1996)

Mathematics

B.S., Ph.D. University of Novosibirsk, Russia

Martha G. Fujimoto (2006)

Nursing

B.S. Hawaii Pacific University

M.S. University of Phoenix

Patricia H. Fulbright (1993)

English

B.A., M.A. California State University, Long Beach

Sara L. Gallow (1999)

English as a Second Language

B.A. Michigan State University

M.A. Ball State University

Randall S. Givens (1988)

Nursing

B.S. Walla Walla College

M.S. University of Portland

Michael A. Godson (1995)

Automotive Technology

A.A.S. Clark College

A.S.E. Master Automotive Technician

Donald M. Gonser (1994)

Diesel

A.S. Oregon Institute of Technology

A.S.E. Master Medium/Heavy Truck Technician

Patrick L. Gonzales (1978)

Welding

A.S. Yuba College

Journey Level Welder

John P. Governale (1993)

Psychology

A.A. Skagit Valley College

B.A. Western Washington University

M.S. Portland State University

Kathryn A. Graham (1979)

Dental Hygiene

B.S., M.S. University of Missouri

Zachary M. Grant (2006)

Librarian

B.A. Oregon State University

M.S. Emporia State University

Garrett C. Gregor (1979)

Mathematics

B.S. University of Utah

M.S. Humboldt State University

Gothard C. Grey (2004)

Physics

B.S. (Physics), B.S. (Chemistry),

B.S. (Mathematics) University of Utah

M.S. California Institute of Technology

Ph.D. University of Wisconsin, Madison

Sandra L. Haigh (2004)

Biology

B.S. Washington State University, Pullman

M.S. Texas A&M University

Ph.D. University of Nevada, Las Vegas

Kathrena L. Halsinger (2001)

Art/Graphics

B.A. Western Washington University

Adnan A. Hamideh (2002)

Business Administration

B.A., B.S., Ed.D. Portland State University

M.B.A. California State University

Tonia L. Haney (2010)

Automotive

B.S. Southern Illinois University

Deborah L. Hendrickson (2008)

Nursing

B.A., B.S. Winona State University

M.P.H. Loma Linda University

Marilyn J. Howell (2000)

Sociology/Criminal Justice

B.A. Western Washington University

M.A., Ph.D. Washington State University

Dwight W. Hughes (2003)

Network Technology

B.S. Northern Arizona University

M.A. University of Phoenix

Certifications in A+, Network+, MCP, CCAI, CCNA

Robert L. Hughes (1998)

Network Technology

A.S. Clark College

B.A. The Evergreen State College

Carol C. Hsu (2010)

Engineering

B.S., M.S. The University of Texas, Austin

Richard H. Inouye (2007)

Music

B.M.E. University of Northern Colorado

M.M. University of Colorado, Boulder

Debra R. Jenkins (2000)

Early Childhood Education/Psychology

A.A. Clark College

B.A., M.A. Pacific Oaks College

M.S. University of Phoenix

Gene E. A. Johnson (1976)

Business, Economics

A.A. Everett Community College

B.A. Central Washington University

M.B.A. (Accounting), M.B.A. (Management),

Golden Gate University

Nancy A. Johnson (1979)

Business Technology

B.A. Washington State University

M.S.T. Portland State University

Catherine E. Johnston (2007)

English as a Second Language

B.A. DePaul University

M.A. University of San Francisco

Sally J. Keely (1996)

Mathematics

B.S., M.S. Portland State University

Izad Khormaee (2003)

Engineering

B.S., M.S. Iowa State University M.B.A. University of Oregon

Travis T. Kibota (1994)

Biology

B.S. University of California, Los Angeles M.S., Ph.D. University of Oregon

Jenefer A. King (2009)

Medical Radiography

Radiography Diploma, Christchurch School of Radiography, New Zealand

Honey H. Knight (2010)

Dental Hygiene

A.A.S. Mt. Hood Community College B.S. Eastern Washington University

David L. Kosloski (1998)

Speech

B.A. Georgia State University, Atlanta M.A. Central Michigan University

C. Carson Legree (1994)

Art/Art History

B.A. University of California, Davis M.F.A. Washington State University

Lewis M. Lewin (1991)

Psychology

B.A. Allegheny College M.S., Ph.D. Ohio University

Christopher R. Lewis (1999)

Electronics

A.A.S., B.A.S. ITT Technical Institute

Dennis J. Lloyd (2000)

Diesel

A.A.S. Clark College

Luanne M. Lundberg (1997)

Developmental Education/Reading B.A. (Psychology-Child Development),

B.A. (Education), M.Ed. Western Washington University

Anita L. Lundy (2002)

Adult Basic Education

B.A. Portland State University M.A.T. Lewis and Clark College

Robert M. MacKay (1983)

Physics

B.A. Chico State University

M.S. Portland State University

Ph.D. Oregon Graduate Institute of Science and Tech-

nology

Carole L. Mackewich (1992)

Counselor

B.A. Bloomsberg State University M.Ed. University of Washington

Kitty J. Mackey (2001)

Librarian

B.A. University of Montana M.L.S. Indiana University

Larry W. Mains (1978)

Culinary Arts

Associate in Occupational Studies

Diploma Culinaire, Culinary Institute of America

Michelle D. Mallory (2008)

Family Life/Early Childhood Education B.S. Western Oregon State College

M.S. Portland State University

Angie M. Marks (2009)

Nursing

B.S.N. Washington State University

Rebecca L. Martin (2000)

Biology

B.A. Vassar College

M.A. Antioch University

Priscila E. Martins-Read (1990)

English as a Non-Native Language

B.A. University of Washington

M.Ed. Oregon State University

Kanchan Mathur (2005)

Mathematics

B.A. Delhi University

M.S., Ph.D. Indian Institute of Technology

Jody McQuillan (2007)

Adult Basic Education

A.S. Madonna University

B.S. Central Michigan University

M.S.W. Portland State University

Christopher E. Milner (2007)

Mathematics

B.S. University of Puget Sound

M.S. Oregon State University

John J. Mitchell (2004)

Mathematics

B.Sc., M.Sc. University College Dublin

April E. Mixon (2005)

Chemistry

B.S. Shippensburg University

M.S. Oregon State University

William H. Monroe (2000)

Mathematics

B.S. University of Santa Clara

B.S. California State University, Chico

M.S. Portland State University

Charlene Montierth (2003)

Geology

A.A., A.S. Long Beach City College

B.S. University of California, Los Angeles

Ph.D. University of Oregon

Melanie Mooney (1978)

Business Technology

B.A. Whitworth College

M.S.T. Portland State University

Meredith A. Moore (2009)

Nursing

A.D.N. Carl Sandburg College

B.S.N., M.N. Oregon Health Sciences University

Douglas E. Mrazek (1978)

French

B.A. Hope College

M.A. University of Illinois

Diplome Superieur d'Etudes Françaises,

University of Grenoble

Erika L. Nava (2008)

Spanish

B.A. Oregon State University

M.A. University of Oregon

Tracy J. Nehnevaj (1992)

Mathematics

B.A., M.S. Eastern Washington University

D. Julian Nelson (2005)

German

B.A., M.A. San Francisco State University

Ph.D. University of California, Davis

Susan L. Nieman (2009)

Nursing

A.D.N. Clark College

B.A. Eastern Washington University

B.S.N., M.S.N. Washington State University, Vancouver

Nancy E. Novak (2002)

English as a Second Language

B.A. Dartmouth College

Ed.M. Oregon State University

TESL Seattle University School of TESL

Michiyo Okuhara (2010)

Japanese

A.A. Seisen Women's Junior College

A.A. Clackamas Community College

B.S., M.E. Portland State University

Wesley J. Orser (1982)

Mathematics

B.A., M.S. Lehigh University

Kathleen M. Perillo (1999)

Biology

B.A. University of Delaware

M.S. University of New Haven

Gary K. Phillips (1988)

Developmental Education/Reading

A.A. Lower Columbia College

B.A. Central Washington State University

M.S. Portland State University

Joseph R. Pitkin (2000)

English

B.A. Utah State University

M.A. New Mexico State University

Kristl J. Honda Plinz (1999)

Computer Graphics Technology

B.S. California Polytechnic State University

M.S. Rochester Institute of Technology

Richard N. Rausch (2003)

Biology

B.S, Ph.D. Portland State University

Heidi M. Rich (1997)

English

B.A. Lewis and Clark College

M.A. University of Iowa

Ph.D. University of Washington

Leslie J. Rivera (1997)

English as a Second Language

B.A. University of Portland

M.A. San Francisco State University

Gail R. Robinson (1993)

English

B.A. Miami University, Ohio

M.A. Portland State University

Marcia R. Roi (2000)

Chemical Dependency

B.S., M.S. Oklahoma State University

Ph.D. Oregon State University

S. Layne Russell (2006)

Paralegal

B.A. University of Memphis

J.D. College of William and Mary, Marshall Wythe

School of Law

Katherine D. Sadler (2005)

History

B.A. Portland State University

M.A., Ph.D. University of California, Los Angeles

Mitzi Schrag (1997)

English

A.A. Clark College

B.A. Reed College

M.A., Ph.D. University of Washington

Patricia A. Serrano (1981)

Business

B.A. Portland State University

M.B.A. University of Portland

Patricio Sevier (2010)

Machining

Richard T. Shamrell (1999)

Physics

B.S. US Air Force Academy, Colorado

M.A. Webster College

M.S. Southern Illinois University

Nicoleta Sharp (2008)

Physics

B.S., M.S. Universitatea Alexandru Ioan Cuza

Nancy C. Sheppard (2005)

Nursing

A.D.N. Lane Community College

B.S.N. University of the State of

New York, Albany

M.S. University of Portland

Dawn M.U. Shults (2009)

Pharmacy

CPhT Clark College

Rosemary A. Sievila (1996)

Nursing

B.S. Michigan State University

M.S. University of Wyoming

Gerard M. Smith (1991)

English

B.S. Bowling Green State University

M.A. University of Toledo

Ph.D. Bowling Green State University

Mark D. Smith (2002)

Computer Technology

B.A. San Francisco State University

M.S. San Jose State University

Kenneth A. Snyder (1996)

Welding

A.S. Clark College

Keith R. Stansbury (1999)

Computer Aided Design & Drafting

B.S. Iowa State University

Senseney L. Stokes (2007)

Art/Photography

B.F.A. Rhode Island School of Design

M.F.A. University of New Mexico

Kimberly A. Sullivan (1992)

English & Technical Writing

B.A. Belhaven College

M.A. Mississippi State University

Roxane Y. Sutherland (1987)

Communication Studies

A.A. Clark College

B.A. The Evergreen State College

M.S. Portland State University

Karla J. Sylwester (1988)

Dental Hygiene

R.D.H. University of Oregon

B.S. Portland State University

Sarah J. Theberge (2000)

Early Childhood Education/Family Studies

A.A.S. Clark College

B.A., M.A. Pacific Oaks College

Nancy J. Thompson (2007)

English

B.A. Portland State University

M.A. University at Albany

M.F.A. Goddard College

Ian L. Titterton (2005)

Baking

Rush Green College

Baking Technology & Flour Confectionery

Sanitation & Hygiene

Sally A. Tomlinson (2007)

Art History

B.A. University of California, Berkeley

M.A. University of Victoria, Canada

Elizabeth R. Torgerson (2010)

Nursing

A.A. Clackamas Community College

B.S.N. OHSU School of Nursing

M.S.N. Washington State University, Vancouver

Elizabeth C. Ubiergo (2008)

Spanish

B.A., M.A. University of Oregon

Dian R. Ulner (2001)

Women's Studies

B.A. Northern Illinois University

M.S. Minnesota State University

Judith A. Van Patten (1973)

Counseling

B.A. University of Washington

M.S. Oregon College of Education

National Certified Counselor (NCC)

Certified Mental Health Counselor Washington

Licensed Professional Counselor - Oregon

Stephen J. Walsh (2000)

Business Administration

B.A., M.B.A. University of Portland

Psy.D. Pacific University

Brenda K. Walstead (2006)

Dental Hygiene

A.A. Clark College

B.S. Concordia University

M.S. Portland State University

Kathryn S. Washburne (2008)

Adult Basic Education

B.A. California Polytechnic State University

M.A. United States International University

Dennis W. Watson (1983)

Mathematics

B.S, M.S. Portland State University

Bruce F. Wells (2000)

Machine Technology

A.G.S. Clackamas Community College

Christine J. Wilkins (2002)

Business Technology

B.A. Oregon State University

M.S. Troy State University

Jim Wilkins-Luton (2003)

Developmental Education

B.A. Whitworth College

M.A. Gonzaga University

Donna I. Wittmayer (1994)

Dental Hygiene

B.S., M.S. Portland State University

Certificate of Dental Hygiene, University of Hawaii

Registered Dental Hygienist

Sandra E. Woodward (1988)

English

B.A. Park College

M.A. University of Kansas

Randall A. Wulff (1976)

English as a Second Language

B.A., M.A. Portland State University

Certificate in T.E.S.O.L.

Clark College Foundation

Lisa Gibert, CPA, CFRE (1998)

Clark College Foundation President/CEO

B.S. University of Oregon

M.B.A. University of California, Irvine

Barbara Chen, CFP, CTFA (2000)

Clark College Foundation Chief Financial Officer

B.S. University of Oregon

Ara Serjoie, CFRE (2006)

Clark College Foundation Vice President

of Development

B.A. Utah State University

M.P.A. University of Utah

Phone Directory

Welcome Center			eLearning	
AdmissionsStudent Ambassadors/Campus			www.clark.edu/eLearning	1-0//-/40-20
Adult Basic Education/ESL			Eligibility Programs Displaced Homemaker Center	CHI 992.23
			High School Completion	
Advising	GHL	992-2345	Work-Based Learning Tuition	
Affirmative Action/			Worker Retraining	
Equal Opportunity	BRD	992-2355	WorkFirst Programs	
Archer Gallery	PUB	992-2246	Facilities Use	
Assessment Center			Financial Aid	992-21
GED Testing	PUB	992-2588	Sponsored Programs	992-23
Placement Testing			Veterans Affairs	
Athletics			Work Study	992-24
			Fitness Center (Thompson)	OSC992-28
Bookstore			Food Service	GHL992-23
Career & Employment Service	esGHL	992-2902	Information	GHL992-20
Career Center			International Programs	PUB992-24
Cooperative Education			Library (Cannell)	1B992-21
Employment Services				
			Lost and Found	GHL992-24
InternshipsService Learning/Volunteerism.			Registration	
Work Study Referrals			Running Start	
Cashier	GHL 1	25992-2177	Security	
Child Care			C	
16 mos3 yrs	CFS	992-2179		•
3-5 yrs			Student Life & Multicultural S General Office	
5-10 yrs			Student Activities	
Corporate & Continuing Ed	TRG	992-2939	Student Government	
Mature Learning			Student Clubs	
Community Education				
Professional Development			Tech Prep	.BHL992-24
Corporate Education			Tutoring/Writing Center	
Counseling & Health Services				. AA4992-24
Counseling/Mental Health Car		992-2641	Volunteer Adult	
Primary Care/Health Exams			Literacy Tutoring	TPC992-27
Credential Evaluations			Washington State University	
			Vancouver Advising	.GHL546-97
Dental Hygiene			WorkFirst/Workforce Training	7
Disability Support Services	GHL	992-2314	Job Skills Training	
		.VP 991-0901	Pathways Learning Center	
Discrimination/Harassment .	BRD	992-2355	WorkFirst Work Study	
			Workforce Education	
			ormoree Education	. 2 . 1

Clark College 2011-2012 Academic Calendar

SUMMER QUARTER	WINTER QUARTER
Classes Begin \dots June 27 (M)	New Year's Day Holiday January 2 (M)*
Independence Holiday July $4(M)$	Classes Begin January 9 (M)
End of 1st 5-week Session July 29 (F)	Martin Luther King Holiday January 16 (M)*
2nd 5-week Session Begins August 1 (M)	President's Day Holiday February 17 (F)*
Last day of 8-week Session August 19 (F)	Last Day of Classes
End of 2nd 5-week Session September 2 (F)	Final Exams
FALL QUARTER	Faculty Workday
Labor Day Holiday September 5 (M) Faculty Workdays, Orientation Registration, Advising September 14-23 Classes Begin September 26 (M) Faculty Workday October 14 (F) Veteran's Holiday November 11 (F) Faculty Workday November 23 (W) No Evening Classes November 23 (W) Thanksgiving Holiday . November 24 – 25 (Th-F) Last Day of Classes December 9 (F) Final Exams December 12 – 15 (M-Th) Faculty Workday December 16 (F)	SPRING QUARTER Classes Begin
Christmas Holiday December 26 (M)*	
2	

SECTION G: Major Related Programs (MRPs) and Articulated Degrees

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Bioengineering and Chemical pre-Engineering Associate of Science Track 2 Articulated Degree

The following is a degree program designed by a consortium of two-year and four-year colleges in Washington. Students should be aware that baccalaureate institutions may have slightly different requirements for these degrees, and students should consult the transfer institution for exact questions.

Students should complete the entirety of any science sequence at the same school for best transferability. These degrees are not DTA degrees, and there are some general education requirements that students will need to finish upon transfer.

Though this degree does not require such, Clark College students should know that the standard Clark AST degree path has this difference from the Articulated Degree defined below:

• Clark requires 3 credits of Health-Physical Education coursework.

Students must also meet the residency requirements as established by Clark. While Clark College has approved offering the degree below, Clark students should keep these requirements in mind should their transfer pathways change.

Students completing this Associate of Science will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the direct transfer associate degree and will be given junior status by the receiving institution.

It is critical that you work with an Engineering faculty advisor to ensure your program will give you the maximum benefit when you transfer.

A. Basic Requirements

Generic Requirements: 1. Communications Skills (5 credits)

Articulated Degree Requirements: 5 quarter credits of English composition

Clark College equivalents: ENGL&101 (5 cr.)

Generic Requirements: 2. Mathematics (10 credits)

Two courses at or above introductory calculus level. Third quarter calculus or approved statistics course: 5 quarter credits chosen with the help of an advisor based on the requirements of the specific discipline at the baccalaureate institution the student plans to attend.

Articulated Degree Requirements: Calculus I, II, III - 15 credits

Differential Equations – 5 credits

Clark College equivalents: MATH&151 (5 cr.)

MATH&152 (5 cr.) MATH&153 (5 cr.) MATH 221 (5 cr.)

Notes: Clark requires concurrent enrollment of completion in MATH&254 when taking MATH221. MATH103 and MATH111 are required prerequisites for MATH&151 that may be needed if calculus placement is not met via COMPASS.

Generic Requirements: 3. Physics (15 credits)

Calculus-based or non-calculus based sequence including laboratory. Students should be advised that some baccalaureate programs require physics with calculus.

Articulated Degree Requirements: Engineering Physics I, II, III + labs – 15-18 credits

Clark College equivalents: PHYS&221 (5 cr.)

PHYS&222 (5 cr.) PHYS&223 (5 cr.)

Notes: Clark requires concurrent enrollment in PHYS094, 095, and 096.

Generic Requirements: 4. Chemistry with Laboratory (5 credits)

Articulated Degree Requirements: General Chemistry I, II, III + labs – 15-18 credits

Organic Chemistry I + lab - 4-6 credits

Organic Chemistry II + lab OR Biology for Science Majors + lab

Clark College equivalents: CHEM&141, 151 (5 cr.)

CHEM&142, 152 (5 cr.) CHEM&143, 153 (6 cr.) CHEM&241, 251 (5 cr.)

CHEM&242, 252 (5 cr.) OR BIOL&221 (5 cr.)

B. Distribution Requirements

Generic Requirements: 1. Humanities/Fine Arts/English and Social Sciences (15 credits)

Articulated Degree Requirements: Minimum 15 quarter credits:

Minimum 5 credits in Humanities, minimum 5 credits in Social Science, plus an additional 5 credits in either Humanities or Social Science for a total of 15 credits.

Clark College equivalents: A course in Economics is recommended (ECON&201 or 202).

PHIL&106 is strongly recommended as the Humanities course.

Notes: Courses taken must come from the current ICRC distribution list in order to count as General Education or General University Requirements (GER's/GUR's) at the receiving institution. Additional general educational requirements, cultural diversity requirements, and foreign language requirements, as required by the receiving institution, must be met prior to the completion of a baccalaureate degree.

C. Electives

Generic Requirements: The remaining quarter credits should be planned with the help of an advisor based on the requirements of the specific discipline at the baccalaureate institution the student selects to attend.

For Engineering disciplines, these credits should include a design component consistent with ABET accreditation standards, as approved by the advisor.

Articulated Degree Requirements: Engineering (14-15 credits)

Select 3 electives as appropriate for intended major and intended baccalaureate institution:

- Computer Programming 4-5 credits
- Linear Algebra
- Calculus IV (Advanced or Multi-variable Calculus)
- Technical Writing

- Electrical Circuits
- Statics
- Thermodynamics
- Chemical Process, Principles and Calculations
- Biology for Science Majors I + labs
- Biology for Science Majors II + labs
- Organic Chemistry 2 + labs

Clark College equivalents: Required at Clark: MATH&254 (5 cr.) – Calculus IV

Other electives as advised dependent on transfer institution.

Total credits: 90-103 credits

Biology DTA/MRP

This pathway is applicable to students planning to prepare for upper-division bachelor's degree majors in Biology. Many students transfer to baccalaureate institutions after completing the Associate Degree Direct Transfer Agreement (DTA); this pathway does not alter that agreement or the possibility that students may continue to follow this path. This Biology MRP streamlines and facilitates preparation for upper-division coursework in Biology across the state.

This document represents an agreement between the following baccalaureate institutions offering bachelor's degrees in Biology or a related field and the community and technical college system. Baccalaureate institutions party to this agreement include: Central Washington University; Eastern Washington University; The Evergreen State College; University of Washington Seattle; Washington State University Pullman; Western Washington University; Saint Martin's University; Seattle University; and Whitworth University.

Where the degree below allows for choice in courses, students are urged to contact potential transfer institutions to ensure that the courses chosen are best for the pathway.

Though this degree does not require such, Clark College students should know that the standard Clark AA degree path has these differences from the MRP defined below:

- a. Clark requires 3 credits of Health-Physical Education coursework, and
- b. As of Fall 2011, Clark requires a course in Oral Communication, and
- c. Clark's Social Science distribution requirement stipulates that students take courses from at least three different departments.

Students must also meet the residency requirements as established by Clark. While Clark College has approved offering the degree below, Clark students should keep these requirements in mind should their transfer pathways change.

Students are responsible for researching and preparing for specific major requirements of baccalaureate institutions as early as possible prior to transferring.

A. Basic Requirements

Generic DTA Requirements: 1. Communications Skills (10 credits)

MRP Requirements: 10 quarter credits of English composition

Clark College equivalents: ENGL&101 (5 cr.)

ENGL&102 (5 cr.)

Notes: May be individualized based on baccalaureate college of choice.

Generic DTA Requirements: 2. Quantitative/Symbolic Reasoning Requirement (5 credits) Intermediate algebra proficiency is required.

MRP Requirements: 5 quarter credits of mathematics—Calculus I

Clark College equivalents: MATH&151 (5 cr.)

Clark College equivalents: Statistics (a course that includes descriptive and inferential statistics) may substitute

for Calculus I at some institutions; students are encouraged to check with the transfer

institution early in their decision process to confirm requirements.

Intermediate Algebra proficiency may be demonstrated by successful completion of a Calculus and/or Statistics course for which Intermediate Algebra is a prerequisite.

B. Distribution Requirements

Generic DTA Requirements: 1 Humanities (15 credits)

MRP Requirements: 15 quarter credits of Humanities

Consistent with the requirements in all DTA degrees - no more than 10 credits per discipline area, 5 credits maximum in world languages or ASL. No more than 5 credits of performance/skills classes are allowed.

Clark College equivalents: 15 quarter credits of Humanities as defined in the Clark College catalog.

Notes: In order to better prepare for successful transfer, students are encouraged to consult with the institution(s) to which they wish to transfer regarding the humanities courses that best support or may be required as prerequisites to their Biology curriculum.

Generic DTA Requirements: 2. Social Sciences (15 credits)

MRP Requirements: 15 quarter credits of Social Sciences

Clark College equivalents: 15 quarter credits of Social Sciences as defined in the Clark College catalog.

Notes: In order to better prepare for successful transfer, students are encouraged to consult with the institution(s) to which they wish to transfer regarding the social science courses that best support or may be required as prerequisites to their Biology curriculum.

Generic DTA Requirements: 3. Natural Sciences (minimum of 15 credits)

MRP Requirements: 30 quarter credits, including:

- 15 credits general biology (majors level)
- 15 credits general chemistry (majors level)

Clark College equivalents: 31 quarter credits as follows:

BIOL&221 (5 cr.)

BIOL&222 (5 cr.)

BIOL&223 (5 cr.)

CHEM&141 (4 cr.)

CMEH&142 (4 cr.)

CHEM&143 (4 cr.)

CITEMIX 143 (4 CI.)

CHEM&151 (1 cr.)

CMEH&152 (1 cr.)

CHEM&153 (2 cr.)

Notes: A full year sequence at a single college is the best preparation for the baccalaureate biology degree.

C. Electives

Generic DTA Requirements: Elective credits

MRP Requirements: 15 additional quarter credits

Clark College equivalents: 14 additional quarter credits (note: Clark's chemistry sequence has 16 credits)

Notes: Electives allow students to include additional courses to prepare for the biology major based on college selection. Examples include a full year sequence of organic chemistry for majors; a full year sequence of physics for science majors; or further math at the pre-calculus level or above or statistics.

Students should check with the transfer institution prior to taking any further biology courses beyond the one-year sequence. Some colleges require all continuing biology courses be taken at the 300 level.

Biology Education Associate of Science Track 1 Articulated Degree

The following is a degree program designed by a consortium of two-year and four-year colleges in Washington. Students should be aware that baccalaureate institutions may have slightly different requirements for these degrees, and students should consult the transfer institution for exact questions.

Students should complete the entirety of any science sequence at the same school for best transferability. These degrees are not DTA degrees, and there are some general education requirements that students will need to finish upon transfer.

Though this degree does not require such, Clark College students should know that the standard Clark AS degree path has these differences from the Articulated Degree defined below:

• Clark requires 3 credits of Health-Physical Education coursework.

Students must also meet the residency requirements as established by Clark. While Clark College has approved offering the degree below, Clark students should keep these requirements in mind should their transfer pathways change.

Students completing this Associate of Science will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the direct transfer associate degree and will be given junior status by the receiving institution.

Students are responsible for researching and preparing for specific major requirements of baccalaureate institutions as early as possible prior to transferring.

A. Basic Requirements

Generic Requirements: 1. Communications Skills (5 credits)

Articulated Degree Requirements: 5 quarter credits of English composition

Clark College equivalents: ENGL&101 (5 cr.)

Generic Requirements: 2. Quantitative/Symbolic Reasoning Requirement (5 credits)

Intermediate algebra proficiency is required.

Articulated Degree Requirements: 10 quarter credits of calculus

Intermediate algebra proficiency is required.

Clark College equivalents: MATH&151 (5 cr.)

MATH&152 (5 cr.)

Notes: Pre-Calculus courses do not meet this requirement.

B. Distribution Requirements

Generic Requirements: 1. Humanities/Fine Arts/English and Social Sciences (15 credits)

15 credits of humanities and social science with at least five credits taken from each. Three different subjects required. No more than 5 credits of performance classes are allowed.

Articulated Degree Requirements: 5 quarter credits Introductory Speech

5 quarter credits General Psychology

Clark College equivalents: CMST&220 (5 cr.)

PSYC&100 (5 cr.)

Plus 5 additional HUM or SS credits.

Notes: Courses in Humanities/Social Science must come from the current ICRC distribution list in order to count as General Education or General University Requirements (GERs/GURs) at the receiving institution.

Additional general educational requirements, cultural diversity requirements, and foreign language requirements, as required by the transfer institution, must be met prior to the completion of a baccalaureate degree.

Generic Requirements: 2. Science Pre-Major Requirement

i. Chemistry for science majors sequence (15 quarter credits)

ii. Third-quarter calculus or approved statistics course (5 quarter credits)

iii. Biology for science majors or physics (calculus or non-calculus based)

(15 quarter credits)

iv. Additional requirements: 10 - 15 quarter credits in physics, geology, organic chemistry, biology, or mathematics, consisting of courses normally taken for science majors (not general education), preferably in a 2- or 3-quarter sequence.

Articulated Degree Requirements: • 15 quarter credits General Chemistry

• 15 quarter credits Organic Chemistry

• 15 quarter credits of majors level biology

• 5 quarter credits statistics

Clark College equivalents: CHEM&141 (4 cr.)

CHEM&142 (4 cr.)

CHEM&143 (4 cr.)

CHEM&151 (1 cr.)

CHEM&152 (1 cr.)

CHEM&153 (2 cr.)

CHEM&241 (4 cr.)

CHEM&242 (4 cr.)

CHEM&243 (4 cr.)

CHEM&251 (1 cr.)

OTTE: 50 050 (1)

CHEM&252 (1 cr.)

CHEM&253 (2 cr.)

BIOL&221 (5 cr.)

BIOL&222 (5 cr.)

BIOL&223 (5 cr.)

MATH203 (3 cr.) and MATH204 (3 cr.)

Notes: Students should be advised that some baccalaureate institutions require physics with calculus to meet this requirement. This would cause the degree to be 105 credits.

Generic Requirements: Additional college-level courses so that total earned is at least 90 credits. May include prerequisites for major courses (e.g. pre-calculus), additional major coursework, or specific general education or other university requirements, as approved by the advisor.

Articulated Degree Requirements: • 10-15 credits, depending on pathways above

- 5 additional quarter credits of English composition
- Field Experience or Intro to Education recommended
- 15 quarter credits of Physics recommended

Clark College equivalents: • ENGL&102 (5 cr.) required.

- EDUC&201 (3 cr.) and EDUC210 (3 cr.) recommended.
- PHYS&221, 222, and 223 recommended
- Plus additional credits to reach 90 minimum quarter credits. These may include needed college-level calculus prerequisites.

Notes: A maximum of five (5) quarter credits of "gray area" courses will be accepted in the remaining credits category.

Students should consult with baccalaureate institutions on the Physics courses—the addition of these courses may bring the degree total to 105 credits.

Business DTA/MRP

This pathway is applicable to students planning to prepare for various business majors at universities in Washington. Effective Fall 2008 this agreement cancels and supersedes the existing statewide Business DTA agreement dated Summer 2003. Prior to Fall 2008 parties to the 2003 Business DTA additionally agree to continue to honor that agreement. Parties to that agreement may honor the April 2006 agreement prior to Fall 2008, if it is advantageous to the student. This agreement shall be subject to review and renewal by all parties not later than Winter 2010.

This document represents the business DTA/MRP agreement, an agreement that meets all requirements of Washington's Direct Transfer Agreement, between the baccalaureate institutions offering a Bachelor of Science or Bachelor of Arts in business administration including accounting, management and management information systems. Baccalaureate institutions party to this agreement are: CWU, EWU, UW (all campuses), WSU (all campuses), WWU, Gonzaga, Heritage, PLU, SMU, SPU, SU, and Walla Walla University.

Students need to make early contact with their potential transfer institutions regarding the specific course choices in each area of the agreement where options are listed (Humanities, Social Science and Business Law or Introduction to Law) and for the electives. Students also need to check with their potential transfer institutions regarding the requirement for overall minimum GPA, a higher GPA in a selected subset of courses or a specific minimum grade in one or more courses such as math or English.

Students planning on transfer to the University of Washington should contact that institution early as Clark College does not currently offer a class that meets the transfer equivalency for Introduction to Law as required by this degree agreement.

Though this degree does not require such, Clark College students should know that the standard Clark AA degree path has these differences from the MRP defined below:

- a. Clark requires 3 credits of Health-Physical Education coursework, and
- b. As of Fall 2011, Clark requires a course in Oral Communication, and
- c. Clark's Social Science distribution requirement stipulates that students take courses from at least three different departments.

Students must also meet the residency requirements as established by Clark. While Clark College has approved offering the degree below, Clark students should keep these requirements in mind should their transfer pathways change.

Students are responsible for researching and preparing for specific major requirements of baccalaureate institutions as early as possible prior to transferring.

A. Basic Requirements

Generic DTA Requirements: 1. Communications Skills (10 credits)

MRP Requirements: 10 quarter credits of English composition

Clark College equivalents: ENGL&101 (5 cr.)

ENGL&102 (5 cr.)

Notes: ENGL&102 is REQUIRED at Eastern Washington University.

Generic DTA Requirements: 2. Quantitative/Symbolic Reasoning Requirement (5 credits)

Intermediate algebra proficiency is required

MRP Requirements: 10 quarter credits:

5 credits of Finite Math 5 credits of business calculus

Intermediate algebra proficiency is required.

Clark College equivalents: MATH105 (5 cr.)

MATH&148 (5 cr.)

B. Distribution Requirements

Generic DTA Requirements: 1. Humanities (15 credits)

MRP Requirements: 15 quarter credits of Humanities

Consistent with the requirements in all DTA degrees – no more than 10 credits per discipline area, 5 credits maximum in world languages or ASL. No more than 5 credits of performance/skills classes are allowed.

Clark College equivalents: 15 quarter credits of Humanities as defined in the Clark College catalog.

CMST&220 is specifically required for WSUV business transfer.

Notes: Students intending the international business major should consult their potential transfer institutions regarding the level of world language required for admission to the major. 5 credits in world languages may apply to the Humanities requirement.

CMST&220 is specifically required for WSUV business transfer.

Generic DTA Requirements: 2. Social Sciences (15 credits)

MRP Requirements: 15 quarter credits of Social Sciences, specifically:

- 5 credits, microeconomics
- 5 credits, macroeconomics
- 5 credits additional social science (not economics)

Clark College equivalents: ECON&201 (5 cr.)

ECON&202 (5 cr.)

5 credits of social science outside economics

Generic DTA Requirements: 3. Natural Sciences

MRP Requirements: 15 quarter credits to include:

- 5 credits in statistics (business statistics preferred)
- 10 credits physical, biological, and/or earth science, including at least one lab course.

Clark College equivalents: BUS or MATH203 (3 cr.)

BUS or MATH204 (3 cr.)

10 credits of natural science course work, including one lab, as defined by Clark College

Notes: Students intending the manufacturing management major at WWU should consult WWU regarding the selection of natural science courses required for admission to the major.

C. Major Requirements

Generic DTA Requirements: 6. Business courses

MRP Requirements: 20 credits, including:

- 5 credits, Intro to Financial Accounting
- 5 credits, Financial Accounting II
- 5 credits, Managerial Accounting
- 5 credits, Business Law or Introduction to Law

Clark College equivalents: For all schools except UW:

ACCT&201 (5 cr.)

ACCT&202 (5 cr.)

ACCT&203 (5 cr.)

BUS&201 (5 cr.)

Notes: UW requires Introduction to Law, an equivalent for which does not exist at Clark.

The following institutions do not require a lower division Business Law course and agree to accept the course taken as part of this degree as a *lower division* elective, but generally not as an equivalent to the course required at the upper division: Heritage, PLU, SU, and Walla Walla University.

D. Electives

Generic DTA Requirements: 7. Elective courses

MRP Requirements: 5 credits of electives

Clark College equivalents: 5 credits of electives

Notes: The following 4 schools REQUIRE a course for admissions. Please consult with transfer advisors for exact courses at Clark to fulfill requirements.

WSU (all campuses) - MIS250

Gonzaga - BMIS 235

PLU - CSCE120

SPU - BUS1700

Chemistry Education Associate of Science Track 1 Articulated Degree

The following is a degree program designed by a consortium of two-year and four-year colleges in Washington. Students should be aware that baccalaureate institutions may have slightly different requirements for these degrees, and students should consult the transfer institution for exact questions.

Students should complete the entirety of any science sequence at the same school for best transferability. These degrees are not DTA degrees, and there are some general education requirements that students will need to finish upon transfer.

Though this degree does not require such, Clark College students should know that the standard Clark AS degree path has these differences from the Articulated Degree defined below:

• Clark requires 3 credits of Health-Physical Education coursework.

Students must also meet the residency requirements as established by Clark. While Clark College has approved offering the degree below, Clark students should keep these requirements in mind should their transfer pathways change.

Students completing this Associate of Science will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the direct transfer associate degree and will be given junior status by the receiving institution.

Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring.

A. Basic Requirements

Generic Requirements: 1. Communications Skills (5 credits)

Articulated Degree Requirements: 5 quarter credits of English composition

Clark College equivalents: ENGL&101 (5 cr.)

Generic Requirements: 2. Quantitative/Symbolic Reasoning Requirement (5 credits)

Intermediate algebra proficiency is required.

Articulated Degree Requirements: 10 quarter credits of calculus

Intermediate algebra proficiency is required.

Clark College equivalents: MATH&151 (5 cr.)

MATH&152 (5 cr.)

Notes: Pre-Calculus courses do not meet this requirement.

B. Distribution Requirements

Generic Requirements: 1. Humanities/Fine Arts/English and Social Sciences (15 credits)

15 credits of humanities and social science with at least five credits taken from each. Three different subjects required. No more than 5 credits of performance classes are allowed.

Articulated Degree Requirements: 5 quarter credits Introductory Speech

5 quarter credits General Psychology

Clark College equivalents: CMST&220 (5 cr.)

PSYC&100 (5 cr.)

Plus 5 additional HUM or SS credits.

Notes: Courses in Humanities/Social Science must come from the current ICRC distribution list in order to count as General Education or General University Requirements (GERs/GURs) at the receiving institution. Additional general educational requirements, cultural diversity requirements, and foreign language requirements, as required by the transfer institution, must be met prior to the completion of a baccalaureate degree.

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Generic Requirements: 2. Science Pre-major Requirement
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- i. Chemistry for science majors sequence (15 quarter credits)
- ii. Third quarter calculus or approved statistics course (5 quarter credits)
- iii. Biology for science majors or physics (calculus or non-calculus based) (15 quarter credits)

iv. Additional requirements: 10 - 15 quarter credits in physics, geology, organic chemistry, biology, or mathematics, consisting of courses normally taken for science majors (not general education), preferably in a 2- or 3-quarter sequence.

Articulated Degree Requirements: 15 quarter credits General Chemistry

15 quarter credits Organic Chemistry

15 quarter credits Physics (algebra or calc-based)

5 quarter credits statistics or 3rd-quarter calculus

Clark College equivalents: CHEM&141 (4 cr.)

CHEM&142 (4 cr.)

CHEM&143 (4 cr.)

CHEM&151 (1 cr.)

CHEM&152 (1 cr.)

CHEM&153 (2 cr.)

CHEM&241 (4 cr.)

CHEM&242 (4 cr.)

CHEM&243 (4 cr.)

CHEM&251 (1 cr.)

CHEM&252 (1 cr.)

CHEM&253 (2 cr.)

PHYS&221 (5 cr.)

PHYS&222 (5 cr.)

PHYS&223 (5 cr.)

(2 111)

MATH&153 (5 cr.) OR

MATH203 (3 cr.) and MATH204 (3 cr.)

Notes: Students should be advised that some baccalaureate institutions require physics with calculus to meet this requirement.

C. Electives

Generic Requirements: Additional college-level courses so that total earned is at least 90 credits. May include prerequisites for major courses (e.g. pre-calculus), additional major coursework, or specific general education or other university requirements, as approved by the advisor.

Articulated Degree Requirements: 10-15 credits, depending on pathways above

5 additional quarter credits of English composition Field Experience or Intro to Education recommended Clark College equivalents: ENGL&102 (5 cr.) required.

EDUC&201 (3 cr.) and EDUC210 (3 cr.) recommended.

Plus additional credits to reach 90 minimum quarter credits. These may include

needed college-level calculus prerequisites.

Notes: A maximum of five (5) quarter credits of "gray area" courses will be accepted in the remaining credits category

Computer and Electrical pre-Engineering Associate of Science Track 2 Articulated Degree

The following is a degree program designed by a consortium of two-year and four-year colleges in Washington. Students should be aware that baccalaureate institutions may have slightly different requirements for these degrees, and students should consult the transfer institution for exact questions.

Students should complete the entirety of any science sequence at the same school for best transferability. These degrees are not DTA degrees, and there are some general education requirements that students will need to finish upon transfer.

Though this degree does not require such, Clark College students should know that the standard Clark AST degree path has these differences from the Articulated Degree defined below:

• Clark requires 3 credits of Health-Physical Education coursework.

Students must also meet the residency requirements as established by Clark. While Clark College has approved offering the degree below, Clark students should keep these requirements in mind should their transfer pathways change.

Students completing this Associate of Science will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the direct transfer associate degree and will be given junior status by the receiving institution.

It is critical that you work with an Engineering faculty advisor to ensure your program will give you the maximum benefit when you transfer.

A. Basic Requirements

Generic Requirements: 1. Communications Skills (5 credits)

Articulated Degree Requirements: 5 quarter credits of English composition

Clark College equivalents: ENGL&101 (5 cr.)

Generic Requirements: 2. Mathematics (10 credits)

Two courses at or above introductory calculus level. Third quarter calculus or approved statistics course: 5 quarter credits chosen with the help of an advisor based on the requirements of the specific discipline at the baccalaureate institution the student plans to attend.

Articulated Degree Requirements: Calculus I, II, III – 15 credits

Differential Equations – 5 credits Linear Algebra – 5 credits

Clark College equivalents: MATH&151 (5 cr.)

MATH&152 (5 cr.) MATH&153 (5 cr.) MATH 215 (5 cr.) MATH 221 (5 cr.) Notes: Clark requires concurrent enrollment of completion in MATH&254 when taking MATH221.

MATH103 and MATH111 are required prerequisites for MATH&151 that may be needed if calculus placement is not met via COMPASS.

Generic Requirements: 3. Physics (15 credits)

Calculus-based or non-calculus based sequence including laboratory. Students should be advised that some baccalaureate programs require physics with calculus.

Articulated Degree Requirements: Engineering Physics I, II, III + labs – 15 to 18 credits

Clark College equivalents: PHYS&221 (5 cr.)

PHYS&222 (5 cr.) PHYS&223 (5 cr.)

Notes: Clark requires concurrent enrollment in PHYS094, 095, and 096.

Generic Requirements: 4. Chemistry with Laboratory (5 credits)

Articulated Degree Requirements: General Chemistry I + labs - 5 credits

Clark College equivalents: CHEM&141, 151 (5 cr.)

Generic Requirements: 5. Required Major Courses

Articulated Degree Requirements: Electrical Circuits – 4-5 credits

Computer Programming – 4-5 credits

Clark College equivalents: ENGR&204 (5 cr.)

CSE121 (5 cr.)

B. Distribution Requirements

Generic Requirements: 1. Humanities/Fine Arts/English and Social Sciences (15 credits)

Articulated Degree Requirements: Minimum 15 quarter credits:

Minimum 5 credits in Humanities, minimum 5 credits in Social Science, plus an additional 5 credits in either Humanities or Social Science for a total of 15 credits.

Clark College equivalents: A course in Economics is recommended (ECON&201 or 202).

PHIL&106 is strongly recommended as the Humanities course.

Notes: Courses taken must come from the current ICRC distribution list in order to count as General Education or General University Requirements (GER's/GUR's) at the receiving institution. Additional general educational requirements, cultural diversity requirements, and foreign language requirements, as required by the receiving institution, must be met prior to the completion of a baccalaureate degree.

C. Electives

Generic Requirements: The remaining quarter credits should be planned with the help of an advisor based on the requirements of the specific discipline at the baccalaureate institution the student selects to attend.

For Engineering disciplines, these credits should include a design component consistent with ABET accreditation standards, as approved by the advisor.

Articulated Degree Requirements: Math, Science & Engr. Electives (20-25 credits)

Select 5 electives as appropriate for intended major and intended baccalaureate institution:

- A second course in Computer Programming object oriented 4-5 credits
- Innovation in Design
- Calculus IV (Advanced or Multi-variable Calculus)
- Technical Writing
- Statics
- Dynamics
- Thermodynamics
- Digital Logic
- Biology for Science Majors I + labs
- General Chemistry II + lab
- Applied Numerical Methods
- Microprocessors

Clark College equivalents: Required at Clark: MATH&254 (5 cr.) – Calculus IV

Other electives as advised dependent on transfer institution.

Total credits: 95-104 credits

Elementary Education DTA/MRP

This pathway is applicable to students planning to prepare for upper-division elementary education major.

As of January 2006 this document represents a new agreement between the following baccalaureate institutions offering Elementary Education bachelor's degrees and the community and technical colleges system. Baccalaureate institutions party to this agreement are: CWU, EWU, WSU, WWU, City University, Gonzaga, Heritage, PLU, SMU, SPU, Walla Walla University, and Whitworth.

Since Clark has had a long-standing degree path with WSUV in Elementary Education, students should follow the specific MRP for WSUV to ensure that they are meeting WSUV's cohort admissions requirements.

Although not required for this degree, students should be advised they must take the WEST-B in order to apply to teacher preparation programs.

Though this degree does not require such, Clark College students should know that the standard Clark AA degree path has these differences from the MRP defined below:

- a. Clark requires 3 credits of Health-Physical Education coursework, and
- b. As of Fall 2011, Clark requires a course in Oral Communication, and
- c. Clark's Social Science distribution requirement stipulates that students take courses from at least three different departments.

Students must also meet the residency requirements as established by Clark. While Clark College has approved offering the degree below, Clark students should keep these requirements in mind should their transfer pathways change.

Students are responsible for researching and preparing for specific major requirements of baccalaureate institutions as early as possible prior to transferring.

A. Basic Requirements

Generic DTA Requirements: 1. Communications Skills (10 credits)

MRP Requirements: 10 quarter credits of English composition

Clark College equivalents: ENGL&101 (5 cr.)

ENGL&102 (5 cr.)

Generic DTA Requirements: 2. Quantitative/Symbolic Reasoning Requirement (5 credits)

Intermediate algebra proficiency is required.

MRP Requirements: 9-15 quarter-based credits of math content at the lower division level must include number

theory, geometry, probability and statistics, with a focus on the development of mathematical concepts in elementary education curriculum. These credits will be accepted by the baccalaureate institutions as fulfilling the lower division math requirements in the Direct Transfer Agreement (DTA) and any additional math credits which may go beyond those requirements will be accepted as electives.

Intermediate algebra proficiency is required.

Clark College equivalents: MATH120 (5 cr.)

MATH121 (5 cr.)

OR

MATH122 (5 cr.)

MATH123 (5 cr.)

MATH124 (5 cr.)

B. Distribution Requirements

Generic DTA Requirements: 1. Humanities (15-20 credits)

MRP Requirements: 15-20 credits in Humanities include:

Required

3-5 credits public speaking

5 credits US History (might be a Social Science at some community colleges).

Recommended

7-12 credits from the following list: art, music, literature, or drama/theater.

Consistent with the requirements in all DTA degrees – no more than 10 credits per discipline area, 5 credits maximum in world languages or ASL. No more than 5 credits of

performance/skills classes are allowed.

Clark College equivalents: CMST&220 (5 cr.) - Fulfills oral communication requirement.

HIST&146, 147, or 148 (5 cr.)

7-12 additional humanities courses

Generic DTA Requirements: 2. Social Sciences (20 credits)

MRP Requirements: 20 credits in Social Sciences, representing at least 3 disciplines, include:

Required

5 credits World Civilization or Non-Western History

Recommended

15 credits from the following list: Economics, Geography, Political Science, Psychology, or

additional History.

Integrated coursework covering several of these topics is encouraged.

Clark College equivalents: HIST& 126, 127, or 128 (5 cr.)

15 additional credits from majors at left. No more than 10 credits in one discipline.

Notes: WSU, CWU, & SM require developmental (lifespan) psychology.

Generic DTA Requirements: 3. Natural Sciences

MRP Requirements: 15 credits in Natural Sciences include:

- 5 credits Biological sciences
- 5 credits Geology or Earth Science
- 5 credits physical sciences (Chemistry or Physics),

two of the above with lab

Clark College equivalents: 15 credits in Natural Sciences include:

- 5 credits Biological sciences
- 5 credits Geology or Earth Science
- 5 credits physical sciences (Chemistry or Physics),

two of the above with lab

C. Major Requirements

MRP Requirements: The baccalaureate institutions will accept 5 quarter credits of education-specific professional introduction coursework, if the coursework meets the following Washington endorsement competencies for Elementary Teachers:

- an exploration of the historical, philosophical and social aspects of elementary education
- an evaluation from the field site supervisor observing the student's work with children
- awareness of the certification process in the state of Washington

Clark College equivalents: EDUC&201 (3 cr.) EDUC210 (3 cr.)

MRP Requirements: A minimum of 30 hours of K-8 classroom experience must be included during the degree program.

Clark College equivalents: Students should consult with the transfer institution to ensure fulfillment of this requirement.

MRP Requirements: 3-5 credits in gender/culture coursework

Clark College equivalents: Students should consult with the transfer institution to ensure fulfillment of this requirement.

MRP Requirements: Students should be able to demonstrate computer literacy in software programs including word processing, PowerPoint, spreadsheets, in addition to being proficient on the Internet.

These skills may be demonstrated through a portfolio of files gathered during their education coursework.

Clark College equivalents: Students should consult with the transfer institution to ensure fulfillment of this requirement.

Generic DTA Requirements: Elective courses

MRP Requirements: Other college-level courses, of which a maximum of 15 credits may be in college-level courses as defined by the community college, and the remainder shall be fully transferable as defined by the receiving institution. Where appropriate, preparation courses for the major, minor, or professional certification should ideally be included in this coursework.

Clark College equivalents: Credits that fulfill the requirements at left to bring the total degree to 90 credits

General Science Education AST1 Articulated Degree

The following is a degree program designed by a consortium of two-year and four-year colleges in Washington. Students should be aware that baccalaureate institutions may have slightly different requirements for these degrees, and students should consult the transfer institution for exact questions.

Students should complete the entirety of any science sequence at the same school for best transferability. These degrees are not DTA degrees, and there are some general education requirements that students will need to finish upon transfer.

Though this degree does not require such, Clark College students should know that the standard Clark AS degree path has these differences from the Articulated Degree defined below:

• Clark requires 3 credits of Health-Physical Education coursework.

Students must also meet the residency requirements as established by Clark. While Clark College has approved offering the degree below, Clark students should keep these requirements in mind should their transfer pathways change.

Students completing this Associate of Science will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the direct transfer associate degree and will be given junior status by the receiving institution.

Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring.

A. Basic Requirements

Generic Requirements: 1. Communications Skills (5 credits)

Articulated Degree Requirements: 5 quarter credits of English composition

Clark College equivalents: ENGL&101 (5 cr.)

Generic Requirements: 2. Quantitative/Symbolic Reasoning Requirement (5 credits)

Intermediate algebra proficiency is required.

Articulated Degree Requirements: 10 quarter credits of calculus

Intermediate algebra proficiency is required.

Clark College equivalents: MATH&151 (5 cr.)

MATH&152 (5 cr.)

Notes: Pre-Calculus courses do not meet this requirement.

B. Distribution Requirements

Generic Requirements: 1. Humanities/Fine Arts/English and Social Sciences (15 credits)

15 credits of humanities and social science with at least five credits taken from each. Three different subjects required. No more than 5 credits of performance classes are allowed

Articulated Degree Requirements: 5 quarter credits Introductory Speech

5 quarter credits General Psychology

Clark College equivalents: CMST&220 (5 cr.)

PSYC&100 (5 cr.)

Plus 5 additional HUM or SS credits.

Notes: Courses in Humanities/Social Science must come from the current ICRC distribution list in order to count as General Education or General University Requirements (GERs/GURs) at the receiving institution.

Additional general educational requirements, cultural diversity requirements, and foreign language requirements, as required by the transfer institution, must be met prior to the completion of a baccalaureate degree.

Generic Requirements: 2. Science Pre-major Requirement

- i. Chemistry for science majors sequence (15 quarter credits)
- ii. Third quarter calculus or approved statistics course (5 quarter credits)
- iii. Biology for science majors or physics (calculus or non-calculus based) (15 quarter credits)
- iv. Additional requirements: 10-15 quarter credits in physics, geology, organic chemistry, biology, or mathematics, consisting of courses normally taken for science majors (not general education), preferably in a 2- or 3- quarter sequence.

Articulated Degree Requirements: 5 quarter credits statistics

PLUS

3 OUT OF FOUR OF THE FOLLOWING:

- 15 quarter credits General Chemistry
- 15 quarter credits Biology for Majors
- 15 quarter credits Physics (algebra or calc-based)
- 10 quarter credits Geology (physical and historical)

Clark College equivalents: MATH203 (3 cr.) and MATH204 (3 cr.)

PLUS

Three of four of these sequences

1. Chemistry

CHEM&141 (4 cr.)

CHEM&142 (4 cr.)

CHEM&143 (4 cr.)

CHEM&151 (1 cr.)

CHEM&152 (1 cr.)

CHEM&153 (2 cr.)

2. Biology

BIOL&221 (5 cr.)

BIOL&222 (5 cr.)

BIOL&223 (5 cr.)

3. Physics

PHYS&221 (5 cr.)

PHYS&222 (5 cr.)

PHYS&223 (5 cr.)

4. Geology GEOL&101 (5 cr.) GEOL103 (5 cr.)

Notes: Students should be advised that some baccalaureate institutions require physics with calculus to meet this requirement.

C. Electives

Generic Requirements: Additional college-level courses so that total earned is at least 90 credits. May include prerequisites for major courses (e.g. pre-calculus), additional major coursework, or specific general education or other university requirements, as approved by the advisor.

Articulated Degree Requirements: 10-15 credits, depending on pathways above.

5 additional quarter credits of English composition. Field Experience or Intro to Education recommended 15 quarter credits of Physics recommended

Clark College equivalents: ENGL&102 (5 cr.) required.

EDUC&201 (3 cr.) and EDUC210 (3 cr.) recommended.

5 additional credits required if only 45 credits are taken in the major area above (if Geology is chosen as an option).

Plus additional credits to reach 90 minimum quarter credits. These may include needed college-level calculus prerequisites.

Notes: A maximum of five (5) quarter credits of "gray area" courses will be accepted in the remaining credits category.

Math Education DTA/MRP

This pathway is applicable to students planning to prepare for math education majors at the secondary level at universities in Washington. Students need to make early contact with their potential transfer institutions regarding the specific course choices in each area of the agreement where options are listed. Students also need to check with their potential transfer institutions regarding the requirement for overall minimum GPA, a higher GPA in a selected subset of courses or a specific minimum grade in one or more courses such as math or English.

Though this degree does not require such, Clark College students should know that the standard Clark AA degree path has these differences from the MRP defined below:

- a. Clark requires 3 credits of Health-Physical Education coursework, and
- b. As of Fall 2011, Clark requires a course in Oral Communication, and
- c. Clark's Social Science distribution requirement stipulates that students take courses from at least three different departments.

Students must also meet the residency requirements as established by Clark. While Clark College has approved offering the degree below, Clark students should keep these requirements in mind should their transfer pathways change.

Students are responsible for researching and preparing for specific major requirements of baccalaureate institutions as early as possible prior to transferring.

A. Basic Requirements

Generic DTA Requirements: 1. Communications Skills (10 credits)

MRP Requirements: 10 quarter credits of English composition

Clark College equivalents: ENGL&101 (5 cr.)

ENGL&102 or 109 (5 cr.)

Generic DTA Requirements: 2. Quantitative/Symbolic Reasoning Requirement (5 credits)

Intermediate algebra proficiency is required.

MRP Requirements: 5 quarter credits: First-quarter calculus

Intermediate algebra proficiency is required.

Clark College equivalents: MATH&151 (5 cr.)

B. Distribution Requirements

Generic DTA Requirements: 1. Humanities (15 credits)

MRP Requirements: Introductory Speech and 10 credits of other humanities

Consistent with the requirements in all DTA degrees - no more than 10 credits per discipline area, 5 credits maximum in world languages or ASL. No more than 5 credits of performance/skills classes are allowed.

Clark College equivalents: CMST&220 (5 cr.)—Fulfills oral communications requirement.

10 other credits of humanities meeting the stipulations for the DTA

Generic DTA Requirements: 2. Social Sciences (15 credits)

MRP Requirements: 15 quarter credits of Social Sciences, specifically:

• 5 credits, Intro to Psychology

• 10 credits, other social sciences

Clark College equivalents: PSYC&100 (5 cr.)

10 credits of social science (maximum of 5 cr. additional psychology)

Generic DTA Requirements: 3. Natural Sciences (15 credits)

MRP Requirements: 15 quarter credits to include:

• 2nd-quarter calculus

• 10 credits physical, biological, and/or earth science, including at least one lab course

Clark College equivalents: MATH&152 (5 cr.)

10 credits of natural science coursework, including one lab, as defined by Clark College

C. Major Requirements

Generic DTA Requirements: 1. Math courses

MRP Requirements: 3rd- and 4th-quarter calculus

Linear Algebra

Clark College equivalents: MATH&153 (5 cr.)

MATH215 (5 cr.) MATH&254 (5 cr.) Generic DTA Requirements: 2. Education courses

MRP Requirements: Field Experience/Intro to Education

Clark College equivalents: EDUC&201 (3 cr.)

EDUC210 (3 cr.)

Generic DTA Requirements: 3. Elective courses

MRP Requirements: Other college-level courses, of which a maximum of 15 credits may be in college-level courses as defined by the community college, and the remainder shall be fully transferable as defined by the receiving institution. Where appropriate, preparation courses for the major, minor, or professional certification should ideally be included in this coursework.

Clark College equivalents: 9 credits of elective as defined above.

Mechanical/Civil/Aeronautical/Industrial/Materials Science pre-Engineering (Other Engineering) Associate of Science Track 2 Articulated Degree

The following is a degree program designed by a consortium of two-year and four-year colleges in Washington. Students should be aware that baccalaureate institutions may have slightly different requirements for these degrees, and students should consult the transfer institution for exact questions.

Students should complete the entirety of any science sequence at the same school for best transferability. These degrees are not DTA degrees, and there are some general education requirements that students will need to finish upon transfer.

Though this degree does not require such, Clark College students should know that the standard Clark AST degree path has these differences from the Articulated Degree defined below:

• Clark requires 3 credits of Health-Physical Education coursework.

Students must also meet the residency requirements as established by Clark. While Clark College has approved offering the degree below, Clark students should keep these requirements in mind should their transfer pathways change.

Students completing this Associate of Science will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the direct transfer associate degree and will be given junior status by the receiving institution.

It is critical that you work with an Engineering faculty advisor to ensure your program will give you the maximum benefit when you transfer.

A. Basic Requirements

Generic Requirements: 1. Communications Skills (5 credits)

Articulated Degree Requirements: 5 quarter credits of English composition

Clark College equivalents: ENGL&101 (5 cr.)

Generic Requirements: 2. Mathematics (10 credits)

Two courses at or above introductory calculus level. Third-quarter calculus or approved statistics course: 5 quarter credits chosen with the help of an advisor based on the requirements of the specific discipline at the baccalaureate institution the student plans to attend.

Articulated Degree Requirements: Calculus I, II, III – 15 credits

Differential Equations – 5 credits Linear Algebra – 5 credits

Clark College equivalents: MATH&151 (5 cr.)

MATH&152 (5 cr.) MATH&153 (5 cr.) MATH 215 (5 cr.) MATH 221 (5 cr.)

Notes: Clark requires concurrent enrollment or completion in MATH&254 when taking MATH221.

MATH103 and MATH111 are required prerequisites for MATH&151 that may be needed if calculus placement is not met via COMPASS.

Generic Requirements: 3. Physics (15 credits)

Calculus-based or non-calculus based sequence including laboratory. Students should be advised that some baccalaureate programs require physics with calculus.

Articulated Degree Requirements: Engineering Physics I, II, III + labs - 15 to 18 credits

Clark College equivalents: PHYS&221 (5 cr.)

PHYS&222 (5 cr.) PHYS&223 (5 cr.)

Notes: Clark requires concurrent enrollment in PHYS094, 095, and 096.

Generic Requirements: 4. Chemistry with Laboratory (5 credits)

Articulated Degree Requirements: General Chemistry I, II + labs – 5 credits

Clark College equivalents: CHEM&141, 151 (5 cr.) CHEM&142, 152 (5 cr.)

Generic Requirements: 5. Required Major Courses

Articulated Degree Requirements: • Statics – 5 credits

• Mechanics of Materials – 5 credits

• Dynamics – 5 credits

Clark College equivalents: ENGR&214 (5 cr.)

ENGR&215 (5 cr.) ENGR&225 (5 cr.)

B. Distribution Requirements

Generic Requirements: 1. Humanities/Fine Arts/English and Social Sciences (15 credits)

Articulated Degree Requirements: Minimum 15 quarter credits:

Minimum 5 credits in Humanities, minimum 5 credits in Social Science, plus an additional 5 credits in either Humanities or Social Science for a total of 15 credits.

Clark College equivalents: A course in Economics is recommended (ECON&201 or 202).

PHIL&106 is strongly recommended as the Humanities course.

Notes: Courses taken must come from the current ICRC distribution list in order to count as General Education or General University Requirements (GER's/GUR's) at the receiving institution. Additional general educational requirements, cultural diversity requirements, and foreign language requirements, as required by the receiving institution, must be met prior to the completion of a baccalaureate degree.

C. Electives

Generic Requirements: The remaining quarter credits should be planned with the help of an advisor based on the requirements of the specific discipline at the baccalaureate institution the student selects to attend.

For Engineering disciplines, these credits should include a design component consistent with ABET accreditation standards, as approved by the advisor.

Articulated Degree Requirements: Math/Engr Electives – (15 credits)

Select 4 Electives (15-20 credits) as appropriate for intended major and intended baccalaureate institution:

- Computer Programming 4-5 credits
- Innovation in Design
- Calculus IV (Advanced or Multi-variable Calculus)
- 3-D Visualization and CAD (Engineering Graphics)
- Technical Writing
- Thermodynamics
- Electrical Circuits
- Materials Science
- Applied Numerical Methods

Clark College equivalents: Required at Clark: MATH&254 (5 cr.) – Calculus IV

Other electives as advised dependent on transfer institution.

Total credits: 102-110 credits

Physics Education Associate of Science Track 2 Articulated Degree

The following is a degree program designed by a consortium of two-year and four-year colleges in Washington. Students should be aware that baccalaureate institutions may have slightly different requirements for these degrees, and students should consult the transfer institution for exact questions.

Students should complete the entirety of any science sequence at the same school for best transferability. These degrees are not DTA degrees, and there are some general education requirements that students will need to finish upon transfer.

Though this degree does not require such, Clark College students should know that the standard Clark AS degree path has these differences from the Articulated Degree defined below:

• Clark requires 3 credits of Health-Physical Education coursework.

Students must also meet the residency requirements as established by Clark. While Clark College has approved offering the degree below, Clark students should keep these requirements in mind should their transfer pathways change.

Students completing this Associate of Science will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the direct transfer associate degree and will be given junior status by the receiving institution.

Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring.

A. Basic Requirements

Generic Requirements: 1. Communications Skills (5 credits)

Articulated Degree Requirements: 5 quarter credits of English composition

Clark College equivalents: ENGL&101 (5 cr.)

Generic Requirements: 2. Quantitative/Symbolic Reasoning Requirement (5 credits)

Intermediate algebra proficiency is required.

Articulated Degree Requirements: 10 quarter credits of calculus

Intermediate algebra proficiency is required.

Clark College equivalents: MATH&151 (5 cr.)

MATH&152 (5 cr.)

Notes: Pre-Calculus courses do not meet this requirement.

B. Distribution Requirements

Generic Requirements: 1. Humanities/Fine Arts/English and Social Sciences (15 credits)

15 credits of humanities and social science with at least five credits taken from each. Three different subjects required. No more than 5 credits of performance classes are allowed.

Articulated Degree Requirements: 5 quarter credits Introductory Speech

5 quarter credits General Psychology

Clark College equivalents: CMST&220 (5 cr.)

PSYC&100 (5 cr.)

Plus 5 additional HUM or SS credits

Notes: Courses in Humanities/Social Science must come from the current ICRC distribution list in order to count as General Education or General University Requirements (GERs/GURs) at the receiving institution.

Additional general educational requirements, cultural diversity requirements, and foreign language requirements, as required by the transfer institution, must be met prior to the completion of a baccalaureate degree.

Generic Requirements: 2. Science Pre-major Requirement

i. Physics (calculus-based or non-calculus based sequence) including laboratory (15 quarter credits)

ii. Chemistry with laboratory (5 credits) required for Engineering majors. Others should select 5 credits of science based on advising.

iii. Computer programming (4 quarter credits) credit course chosen with the help of an advisor based on the requirements of the specific discipline at the baccalaureate institution the student plans to attend.

iv. Third-quarter calculus or approved statistics course: 5 quarter credits chosen with the help of an advisor based on the requirements of the specific discipline at the baccalaureate institution the student plans to attend.

Articulated Degree Requirements: • 15 quarter credits Physics (calculus-based)

- 10 quarter credits General Chemistry
- 10 credits 3rd and 4th quarter calculus
- 5 quarter credits Linear Algebra
- 5 quarter credits Differential Equations

Clark College equivalents: PHYS&221 (5 cr.)

PHYS&222 (5 cr.)

PHYS&223 (5 cr.)

CHEM&141 (4 cr.)

CHEM&142 (4 cr.)

CHEM&151 (1 cr.)

CHEM&152 (1 cr.)

MATH&153 (5 cr.)

MATH&254 (5 cr.)

MATH215 (5 cr.)

MATH221 (5 cr.)

Notes: Students should be advised that some baccalaureate institutions require physics with calculus to meet this requirement.

C. Electives

Generic Requirements: The remaining 31 quarter credits should be planned with the help of an advisor based on the requirements of the specific discipline at the baccalaureate institution the student selects to attend. For Engineering disciplines, these credits should include a design component consistent with ABET accreditation standards.

Articulated Degree Requirements: 10-15 credits, depending on pathways above

5 additional quarter credits of English composition 1 credit selected from this area within the AST Field Experience or Intro to Education recommended

Clark College equivalents: ENGL&102 (5 cr.) required.

1 cr. selected from this area within the AST.

EDUC&201 (3 cr.) and EDUC210 (3 cr.) recommended.

Plus additional credits to reach 90 minimum quarter credits. These may include needed college-level calculus prerequisites.

Notes: A maximum of five (5) quarter credits of "gray area" courses will be accepted in the remaining credits category.

Pre-Nursing DTA/MRP

This pathway is applicable to students planning to prepare for upper-division Bachelor of Science, Nursing (entry-to-practice/basic BSN pathway) by completing a broad selection of academic courses. Many students transfer to the BSN program after completing the Associate Degree Nursing (ADN) program (RN to BSN pathway); however, this agreement is not applicable to and does not alter those ADN to BSN articulation agreements.

Students planning a career pathway in Nursing should seek advisement from Clark College's Advising Department early. Besides this degree, Clark has several consortial agreements with regard to degrees in Nursing.

This pathway streamlines preparation for the basic BSN pathway across the state. It does not, however, address the issue of significantly inadequate capacity (faculty, clinical opportunities, etc.) at the BSN level relative to workforce

needs or current student interest. Due to high interest and limited space in BSN programs, admission to all BSN programs is highly competitive with many qualified applicants finding themselves on waiting lists for admission.

This document represents an agreement between the following baccalaureate institutions offering an entry-to-practice/basic BSN program and the community and technical colleges system. Baccalaureate institutions party to this agreement include: University of Washington, Seattle; Washington State University; Northwest University; Seattle University; Seattle Pacific University; Pacific Lutheran University; and Walla Walla University. The Washington State University Intercollegiate College of Nursing (WSU-ICN) is a consortium whose members include Eastern Washington University, Gonzaga, and Whitworth. Associate degree transfers to WSU-ICN are admitted through WSU, not through the other consortium institutions. EWU participated in the development of this agreement.

Though this degree does not require such, Clark College students should know that the standard Clark AA degree path has these differences from the MRP defined below:

- a. Clark requires 3 credits of Health-Physical Education coursework, and
- b. Clark's Social Science distribution requirement stipulates that students take courses from at least three different departments.

Students must also meet the residency requirements as established by Clark. While Clark College has approved offering the degree below, Clark students should keep these requirements in mind should their transfer pathways change.

Students are responsible for researching and preparing for specific major requirements of baccalaureate institutions as early as possible prior to transferring.

A. Basic Requirements

Generic DTA Requirements: 1. Communications Skills (10 credits)

MRP Requirements: 10 quarter credits of English composition

Clark College equivalents: ENGL&101 (5 cr.)

ENGL&102 (5 cr.)

Notes: ENGL&102 is REQUIRED at Northwest University and Walla Walla University.

Generic DTA Requirements: 2. Quantitative/Symbolic Reasoning Requirement (5 credits) Intermediate algebra proficiency is required.

 $\textbf{MRP Requirements:} \ 5 \ \text{quarter credits statistics} \ (a \ course \ that \ includes \ descriptive \ and \ inferential \ statistics)$

Intermediate algebra proficiency is required.

Clark College equivalents: MATH 203 (3 cr.) MATH 204 (3 cr.)

Notes: UW Seattle and Seattle University require 10 credits in quantitative/symbolic reasoning with the additional class in college algebra or pre-calculus (at UW Seattle, a class in Logic also serves for the additional class).

B. Distribution Requirements

Generic DTA Requirements: 1. Humanities (15 credits)

MRP Requirements: 5 quarter credits of Public Speaking

10 quarter credits of other Humanities

Consistent with the requirements in all DTA degrees – no more than 10 credits per discipline area, 5 credits maximum in world languages or ASL. No more than 5 credits of performance/skills classes are allowed.

Clark College equivalents: CMST&220 (5 cr.)—Fulfills oral communication requirement.

10 quarter credits of other Humanities, 5 of which can be CMST.

Notes: In order to better prepare for successful transfer, students are encouraged to consult with the institution(s) to which they wish to transfer regarding the humanities courses that best support or may be required as prerequisites to their nursing curriculum.

A curriculum that provides students with an understanding of and sensitivity to human diversity is encouraged (required by WSU). Credits in the humanities distribution area provide one opportunity for such a curriculum. See the humanities choices in the WSU "Diversity Course Identification Guidelines" for possible selection or choose courses that include minority, non-Western, ethnic or other "area" studies.

Generic DTA Requirements: 2. Social Sciences (15 credits)

MRP Requirements: • 5 quarter credits, Introduction to Psychology

- 5 quarter credits, Human Development across the Life span
- 5 credits from the Sociology discipline

Clark College equivalents: PSYC&100 (5 cr.)

PSYC&200 (5 cr.)

5 credits in Sociology

Notes: Northwest University requires Cultural Anthropology and does not accept a course in the sociology discipline as a substitute. Students may be admitted to the BSN without Cultural Anthropology if they agree to complete the course at NU in the summer prior to the junior year.

A curriculum that provides students with an understanding of and sensitivity to human diversity is encouraged (required by WSU). The credits in sociology provide one opportunity for such a curriculum. See the sociology choices in the WSU "Diversity Course Identification Guidelines" for possible selection or choose courses that include minority, non-Western, ethnic or other "area" studies.

Generic DTA Requirements: 3. Natural Sciences

MRP Requirements: 35 credits with at least 25 credits lab-based:

- 5 quarter credits General Biology, the course prerequisite to Anatomy/Physiology
- 10 quarter credits Anatomy and Physiology with lab
- 5 quarter credits Inorganic Chemistry with lab
- 5 quarter credits Organic/Biochemistry with lab (when Organic + Biochemistry are separate courses, both are required)
- 5 quarter credits Microbiology with lab
- 5 quarter credits Human Nutrition

Clark College equivalents: BIOL&100 (5 cr.)

BIOL&251 (5 cr.)

BIOL&252 (5 cr.)

BIOL&253 (5 cr.)

BIOL&260 (5 cr.)

CHEM&121 (5 cr.)

CHEM&131 (5 cr.)

NUTR103 (3 cr.)*

*Students need to be aware that Clark College's nutrition class is only three (3) credits, and not the required five (5) credits.

Notes: Introductory survey courses or review courses do not meet the content level expectations for these natural science requirements.

Northwest University requires 2 credits of Genetics as well. Students may be admitted to the BSN without Genetics if they agree to complete the course at NU in the summer prior to the junior year.

At the time of application when some of the coursework may not yet be completed, UW Seattle requires a minimum GPA of 3.0 for 3 out of the 7 courses or 2.8 for 4 out of the 7.

C. Electives

Generic DTA Requirements: Elective courses

MRP Requirements: Up to 10 additional quarter credits of which a maximum of 5 credits may be in college-level courses as defined by the community college, and the remainder shall be fully transferable as defined by the receiving institution.

Clark College equivalents: Up to 10 additional quarter credits of which a maximum of 5 credits may be in college-level courses as defined by the community college, and the remainder shall be fully transferable as defined by the receiving institution.

Students need to consult with the transfer institution to determine which course is "fully transferable."

Notes: See notes under humanities, social science and natural science.

A curriculum that provides students with an understanding of and sensitivity to human diversity is encouraged (required by WSU). The elective credits provide one opportunity for such a curriculum. See the choices in the WSU "Diversity Course Identification Guidelines" for possible course selection or select courses that include minority, non-Western, ethnic or other "area" studies.