



SECTION G:
MAJOR RELATED PROGRAMS (MRPs)

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Bioengineering and Chemical Pre-Engineering Associate of Science Track 2 MRP

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 Major Related Program (MRP) 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)

MRP 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.

MRP 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.

MRP 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)

MRP 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)

MRP 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.

MRP 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:

- 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.

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.)
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 MRP

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 Major Related Program (MRP) 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)

MRP 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.

MRP 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.

MRP 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.

MRP 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.)
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.

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.

MRP 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 Washington¹. Effective July 1, 2012, this agreement cancels and supersedes the existing statewide Business DTA agreement dated Summer 2003 and revised April 2006. Prior to July 1, 2012, parties to the 2006 and 2003 Business DTA MRP agree to continue to honor that agreement until July 1, 2014. This agreement shall be subject to review and renewal by all parties not later than September 2016.

This document represents the business DTA/MRP 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 and the community and technical college system. Baccalaureate institutions party to this agreement are Central Washington University, Eastern Washington University, University of Washington (all campuses), Washington State University (all campuses), Western Washington University, Gonzaga University, Heritage University, Pacific Lutheran University, Saint Martin’s University, Seattle Pacific University, Seattle University, Walla Walla University, and Whitworth University.

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,
- 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.

¹ This DTA/MRP is not intended for Community and Technical College students pursuing a terminal professional/technical degree in Business.

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.) or ENGL&235 (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 credits total

Must include 5 credits of business calculus, calculus I or a higher-level math that includes calculus as a prerequisite.

May include finite math or pre-calculus prerequisites for calculus or other courses to prepare for business calculus.

Clark College equivalents: Course 1: MATH&148, 151, 152, 153, 215, 221, or 254 (5 cr.)

Course 2: MATH103 or 105; MATH&111, 152, 153, 215, 221, or 254 (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 strongly recommended.

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: Universities with a lower-division Business Law requirement: UW (all campuses), WSU (all campuses) EWU, CWU, WWU, Gonzaga, SMU, SPU, Whitworth.

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.

International students who completed a business law course specific to their home country must take a business law course at a U.S. institution in order to demonstrate proficiency in U.S. business law.

D. Electives

Generic DTA Requirements: 7. Elective courses

MRP Requirements: 5 credits of electives

Clark College equivalents: 5 credits of electives

Notes: Five institutions have requirements for admission to the major that go beyond those specified above. Students can meet these requirements by careful selection of the elective **University Course Equivalent to:**

- WSU (all campuses): Management Information Systems MIS 250
- Gonzaga: Management Information Systems BMIS 235
- PLU: Computer applications CSCE 120, either an equivalent course or skills test
- SPU: Spreadsheets BUS 1700, either an equivalent course or skills test
- WWU: Introduction to Business Computer Systems MIS 220 (for transfer students entering fall 2014)

Chemistry Education Associate of Science Track 1 MRP

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 Major Related Program (MRP) 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)

MRP 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.

MRP 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.

MRP 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.

MRP 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.)
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.

MRP 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 MRP

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 Major Related Program (MRP) 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)

MRP 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.

MRP 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.

MRP 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)

MRP Requirements: General Chemistry I + labs – 5 credits

Clark College equivalents: CHEM&141, 151 (5 cr.)

Generic Requirements: 5. Required Major Courses

MRP 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)

MRP 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.

MRP 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.

D. Electives

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

Elementary Education DTA/MRP—WSUV Pathway

This pathway is applicable to students planning to prepare for 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.

The courses listed below are based on admissions requirements for the 2012 Bachelor of Arts in Education/Teacher Preparation Program. Requirements may change as time goes forward, and students should consult with WSUV to keep abreast of these.

This degree is specifically tailored to WSUV. Students completing this program will receive an Elementary Education DTA/MRP. Students should consult with other institutions about their specific entry requirements.

The coding for this degree is NOT different than 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.

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.

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.

A. Basic Requirements

Generic 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 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.)

Note: The Math 120-121 sequence was discontinued in 2011-12; it will continue to be accepted for the degree at this time. New students need to take the 15-credit sequence.

B. Distribution Requirements

Generic 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: Requirements:

CMST&220 (5 cr.)—Fulfills oral communication requirement.

MUS106 (3 cr.)

HIST&146, 147, or 148 (5 cr.)

Recommended:

ENGL105 (5 cr) will be accepted as a Humanities course for the Elementary Education degree.

Generic 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: Required for the MRP:

• HIST&126, 127, or 128 (5 cr.)

Required for WSUV admission:

• PSYC&100 (5 cr.)

• PSYC&200 (5 cr.)

• POLS111 or 171 (3-5 cr.)

• GEOG&100 (5 cr.) and ECON101, &201, or &202 (3-5 cr.)

OR

• GEOG&207, 220, 221, 222, or 223 (5 cr.)

Notes: GEOG&207 is formerly ECON107 or GEOG107.

GEOG207, 220, 221, 222, or 223 will be accepted for both the geography and the economics requirements.

Generic 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 course work.

Clark College equivalents: Students should consult with the transfer institution to ensure fulfillment of this requirement.

C. Electives

Generic 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 course work.

Clark College equivalents: Credits that fulfill the requirements at left to bring the total degree to 90 credits

General Science Education AST1 MRP

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 Major Related Program (MRP) 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)

MRP 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.

MRP 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.

MRP 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.

MRP 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.

MRP 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 MRP

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 Major Related Program (MRP) 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)

MRP 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.

MRP 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.

MRP 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)

MRP 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

MRP 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)

MRP 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.

MRP 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 MRP

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 Major Related Program (MRP) 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)

MRP 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.

MRP 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.

MRP 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.

MRP 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.

MRP 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 system of community and technical colleges. Baccalaureate institutions party to this agreement include: University of Washington, Seattle; Washington State University; Northwest University; Seattle University; Seattle Pacific University; Pacific Lutheran University; Walla Walla College. 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.

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.

MRP Requirements: 5 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.)
OR
BUS 203 (3 cr.)
BUS 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). Students should make sure that the receiving institution will accept the business statistics sequence prior to starting.

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 or BIOL164/165 (5 cr.)

(164/165 preferred)

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.