



Program Map



Computer Science - Associate of Science Transfer (AST2) Degree

Area of Study: Science, Technology, and Engineering

Computer Science involves the design, development and analysis of computer programs and applications. Computer scientists have expertise in programming, algorithms, digital logic and software engineering. Computer scientists' programs are in use across a wide-variety from products – simply any device with a processor (smart device) requires computer scientists to program it. They work in multi-disciplinary teams on computer systems, gaming, robotics, automation, banking, healthcare, and many other areas. Computer science students at Clark College get the opportunity to develop projects by applying their classroom knowledge to solve real-world problems. Projects involve developing ideas, creating algorithms, programming and presenting the results. Upon completion, students may continue their study toward a Bachelor of Science in Computer Science, or may seek internship/entry-level programming positions.

All students interested in Computer Science should contact Computer Science faculty for advising as soon as possible. Advising schedules are available at <https://www.engrcs.com/schedule>

Program maps are suggested academic plans and should not be used in the place of regular academic advising. Your student entry method, placement, course availability, and program requirements are subject to change and transfer credit(s) may change your map/plan.

Year One

Fall Term

- MATH& 151 Calculus I 5
- CSE 120 Introduction to Electrical & Computing* 5
- ENGL& 101 English Composition I 5
- CSE 101 Engineering and Computer Science Orientation* 1

Winter Term

- MATH& 152 Calculus II 5
- CSE 121 Introduction to C* 5
- WS 101 Introduction to Women's Studies^ 5

HPE 2 (3) Health(2)/PE(1)

Spring Term

- MATH& 153 Calculus III 5
- ENGR 250 Digital Logic Design* 5
- HIST& 128 World Civilizations III 5

Summer Term

- ENGR 270 Digital Systems and Microprocessors* 5
- BIOL& 100 Survey of Biology^ 5
- ECON& 202 Macro Economics 5

Year Two

Fall Term

- CSE 215 Discrete Structures* 5
- PHYS& 231 Engineering Physics Lab I 1
- PHYS& 241 Engineering Physics I 4
- PHYS 094 Physics Calculations 1
- CSE 224 Programming Tools* 5

Winter Term

- MATH& 254 Calculus IV* 5
- PHYS& 232 Engineering Physics Lab II 1
- PHYS& 242 Engineering Physics II 4
- PHYS 095 Physics Calculations 1
- CSE 222 Introduction to Data Structure* 5

Spring Term

- MATH 215 Linear Algebra* 5
- PHYS& 233 Engineering Physics Lab III 1
- PHYS& 243 Engineering Physics III 4
- PHYS 096 Physics Calculations 1
- CSE 223 Advanced Data Structure* 5

90 units required, 109 units listed – see advisor. View the [Clark College Catalog](#) for additional program information.

**Elective credits in excess of 32 may not be funded by financial aid. Work with your advisor for specific academic planning based on your intended transfer institution.*

Key: ^ Alternative classes are available to fit your schedule or interest. & Common Course in the State of Washington.

Approximate Costs Each Term

Tuition \$1490* for 15 credits per term plus books, supplies, and miscellaneous fees. *Tuition based on Washington resident rates. View [residency classifications](#) on our website.

Customize with Advising

Make an appointment online with advising services to learn more about customizing your academic plan at clark.edu/advising.

How to Enroll

Visit Clark College's Welcome Center in Gaiser Hall room 127 or the [Get Started webpage](#) for information on becoming a new student. Email start@clark.edu or call 360-992-2078.

Apply for Admission

Support Services

At Clark College, we know that everyone who walks through our doors is a unique person with diverse, interesting and sometimes challenging circumstances. We are committed to ensuring each and every student can succeed at Clark, and are committed to serving systemically non-dominant communities, including (but not limited to) people of color, those who identify as LGBTQIA2S+ and people with disabilities. We have resource centers, clubs, programs and activities for all students.

Visit our [Student Support page](#) for more information.

Funding Options at Clark

There are many resources available to help students cover the costs to attend college—tuition, books, fees, tools, transportation, childcare, etc.—so you can focus on completing your degree or certificate.

Grants Based on need. You do not need to pay back grants.

Scholarships Similar to grants, and there are different criteria; Clark College awards hundreds of thousands of dollars to students each year. We encourage everyone to apply!

Student Employment & Work Study Money you earn through working part-time; this helps to reduce your reliance on loans, and build your skills and resume.

Loans If you do need to borrow additional funds to pay for college-related expenses, you can consider loans. It is money you borrowed and will pay back with interest.

Specific Assistance for veterans, worker retraining, DREAMers, students receiving DSHS benefits, and more.

For more information, visit our [paying for college website](#) or visit the **Office of Financial Aid** in Gaiser Hall room 101.

Career Opportunities

Career exploration and planning is an essential step to establishing your academic journey at Clark College and beyond. Career Services connects you with resources and strategies for career planning in six areas: knowing self; career awareness; relationship building and networking; work-based learning; job-search skills; and career readiness competencies. You are encouraged to participate in MyPlan, a comprehensive and interactive guide with activities to support your career, academic, and financial wellness planning. Visit [Career Services](#) in the Penguin Union Building room 002.

Students who complete the **Associate in Science Transfer – Computer Science Emphasis** degree could be employed as:
Some careers may require a bachelor's degree or higher

Systems Engineer
Computer Programmer
Software Developer
Aerospace Engineer
Software Engineer

Information Technologist
Computer Systems Analyst

Career exploration information established by Clark Faculty and Staff.



Clark College does not discriminate on the basis of race, color, national origin, age, perceived or actual physical or mental disability, pregnancy, genetic information, sex, sexual orientation, gender identity, marital status, creed, religion, honorably discharged veteran or military status, or use of a trained guide dog or service animal in its programs and activities, in accordance with state and federal laws. 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. The following person has been designated to handle inquiries regarding non-discrimination policies: Vice President of Diversity, Equity, and Inclusion, Gaiser Hall (GHL) 220, 360-992-2757, or 360-991-0901 (video phone).

Alternate format of this document is available upon request. Please contact Disability Support Services at 360-992-2314, or 360-991-0901 (video phone).

Created in March 2020, Last updated in March 2021.