Bachelor of Science in Computer Science (BSCS)

Computer Science involves the design, development and analysis of computer programs and applications. Computer scientists develop software solutions for a wide variety of products and services. Put simply, any device with a processor (i.e., a smart device) requires computer scientists. They work in multi-disciplinary teams on computer systems, security, artificial intelligence, gaming, robotics, automation, banking, healthcare, and many other fields.

Computer science students develop projects by applying their classroom knowledge to solve real-world problems. Projects involve developing concepts, creating algorithms, programming, and presenting the results. Upon completion of this program of study, students obtain a Bachelor of Science in Computer Science (BSCS) and will be qualified for a wide range of computer software development opportunities.

National average wage for a computer scientist is $156,870 per year, based on U.S. Bureau of Labor Statistics (source: https://www.bls.gov/oes/current/oes151221.htm). Average wage for a computer scientist in Clark County and vicinity is $139,200 per year, and the field is expected to grow 19% over the next decade based on EMSI Research Data.

Students successfully completing year one and two courses are awarded an Associate of Applied Technology (AAT) in Computer Science degree and become eligible to apply to the Bachelor of Science in Computer Science degree program. Students accepted to the BSCS program who successfully complete year three and four courses are awarded a Bachelor of Science in Computer Science.

Clark College Computer Science faculty bring their extensive industry and teaching experience to the classroom. Faculty maintain close ties with students and employers to ensure Clark students are prepared to succeed in their careers.

All students interested in Computer Science should contact a Computer Science faculty advisor in order to develop an educational plan as soon as possible. Advising schedules are available at https://www.engrcs.com/schedule – No appointment is required.

Year One

Fall Term
☐ MATH 111 College Algebra.. 5
☐ CSE 120 Introduction to Computing 5
☐ ENGL& 101 English Composition I 5
☐ CSE 101 Computer Science Orientation................................... 1

Winter Term
☐ MATH 103 College Trigonometry 5
☐ CSE 121 Introduction to C.. 5
☐ CMST& 230 Small Group Communication 5

Spring Term
☐ MATH& 146 Statistics... 5
☐ CSE 250 Digital Logic Design 5
☐ ECON& 202 Macroeconomics 5

Year Two

Fall Term
☐ MATH& 151 Calculus I.. 5
☐ CHEM& 121 Intro to Chemistry 5
☐ CSE 224 Programming Tools... 5

Winter Term
☐ MATH& 152 Calculus II... 5
☐ CSE 215 Discrete Structure.. 5
☐ CSE 222 Introduction to Data Structure 5

Spring Term
☐ MATH 215 Linear Algebra 5
☐ BIOL& 100 General Biology 5
☐ CSE 223 Advanced Data Structure... 5

Year Three

Fall Term

- ☐ CSE 310 Software Engineering.. 4
- ☐ CSE 315 Programming Language Design 4
- ☐ ENGL& 235 Technical Writing.. 5
- ☐ Specialization 2

Winter Term

- ☐ CSE 330 Computer Networks 4
- ☐ CSE 325 Software Design & Development... 4
- ☐ CSE 370 Computer Organization & Architecture 5
- ☐ Specialization 2

Spring Term

- ☐ CSE 320 Design & Analysis of Algorithms 4
- ☐ CSE 340 Introduction to Database Systems... 4
- ☐ CSE 345 System Programming.. 4
- ☐ Specialization 2

Year Four

Fall Term

- ☐ CSE 410 Project & Program Management... 4
- ☐ CSE 490 Capstone Project I 4
- ☐ Specialization 6

Winter Term

- ☐ PHIL 420 Ethics in Management.. 5
- ☐ CSE 491 Capstone Project II 4
- ☐ Specialization 8

Spring Term

- ☐ CSE 420 Human Machine Interface.. 4
- ☐ CSE 492 Capstone Project III 4
- ☐ Specialization 8

Specialization Areas: Artificial Intelligence, Cyber Security, Mobile App , Cloud Computing, Embedded Systems

Advising & Enrollment

Students are encouraged to contact faculty advisors in order to develop an educational plan. Zoom office hours and links are available at https://www.engrcs.com/schedule . No Appointment is required.

Visit Clark College's Welcome Center in Gaiser Hall Room 127 or http://www.clark.edu/getstarted for information on becoming a new student. Email start@clark.edu or call 360-992-2078.

Support Services

Clark College offers resource centers, clubs, programs and activities for all students. *Visit https://www.clark.edu/campus-life for more information.*

Funding Options at Clark

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

Grants are need-based and do not require pay back.
Scholarships are similar to grants and require different criteria.   Clark College awards hundreds of thousands of dollars to students each year.

We encourage everyone to apply!
For more information, visit https://www.clark.edu/enroll/paying-for-college or visit the Office of Financial Aid in Gaiser Hall room 101.

Career Opportunities

Career exploration and planning are essential steps to establishing your academic journey at Clark College and beyond. Career Services connects you with resources and strategies for career planning in 6 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 https://www.clark.edu/enroll/careers or in the Penguin Union Building Room 002.*