COMPUTER SCIENCE

Academics
Your major in computer science will encompass software experience to prepare you to develop the compilers and operating systems of the future, hardware experience to design the next generation computer chips in Silicon Valley and theoretical studies to advance into research in academia.

Over half of your coursework involves computer science software and hardware, mathematics and the natural sciences, leaving time and flexibility to explore your specific interests. Imagine yourself in elective courses such as Computer Organization, Embedded Systems, Programming Language Concepts, Software Engineering, Operating Systems Principles, Database Systems, High-performance Computing and many more.

Experience
In the College of Arts and Sciences, we know experience is valuable and goes beyond the classroom. We strive to help you connect your academics with research, internships, education abroad, service learning and leadership experiences. Take advantage of opportunities in computer science such as:

- Studying abroad at Tampere University of Technology in Finland
- Serving as the Game Developers Club president
- Interning with Hudl in data science
- Researching how drones are used for close observation of wildfires
- Volunteering in public schools with Computing for All

Opportunities
A major in computer science at Nebraska means preparing for one of the fastest growing and well paying fields in the nation! Computer science graduates readily find employment as internet programmers, web information retrieval systems designers, game and animation programmers, scientific programmers, high-speed processor specialists, electronic commerce specialists and engineers of enterprise-scale software systems. Here are examples of recent graduates’ employment:

- Business Technology Support Technician / DEPARTMENT OF ROADS
- Data Engineer / HUDL
- GIS Web Developer, Analyst / THE NORTH JACKSON COMPANY
- Mobile App Developer / SANDHILLS PUBLISHING
- Officer / UNITED STATES AIR FORCE
- Programmer / NEBRASKA HEART HOSPITAL
- Software Consultant / SELF EMPLOYED
- Software Developer / EXPERIAN
- Systems Application Specialist / SANDHILLS PUBLISHING
- Technology Specialist / TD AMERITRADE

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# COMPUTER SCIENCE

### FIRST SEMESTER
- CSCE 155A: Computer Science I (ACE 3) 3
- MATH 106: Calculus I (CDR B) 5
- ACE 1: Written Texts/Research & Knowledge Skills 3
- Language Prerequisite - 101 Level (Elective) 5
- CSCE 10: Introduction to CSE 0
- **Total Hours 16**

### SECOND SEMESTER
- CSCE 156: Computer Science II 4
- CSCE 235: Introduction to Discrete Structures 3
- MATH 107: Calculus II (CDR F) 4
- Language Prerequisite - 102 Level (Elective) 5
- **Total Hours 16**

### THIRD SEMESTER
- CSCE 310: Data Structures and Algorithms 3
- CSCE 230: Computer Organization (ACE 8 with CSCE 486) 4
- CSCE 251: Unix Programming Environment 1
- MATH 208: Calculus III 4
- Language Requirement - 201 Level (CDR E) 3
- **Total Hours 15**

### FOURTH SEMESTER
- CSCE 322: Programming Language Concepts 3
- CSCE 361: Software Engineering 3
- MATH 314: Linear Algebra 3
- STAT 380: Statistics and Applications 3
- Language Requirement - 202 Level (CDR E) 3
- **Total Hours 15**

### FIFTH SEMESTER
- CSCE 486: Computer Science Professional Development (ACE 8) 3
- CSCE Technical Elective 300 or 400 Level 3
- Science Requirement (CDR BL) 4
- CDR A: Written Communication 3
- CDR C: Humanities 3
- **Total Hours 15**

### SIXTH SEMESTER
- CSCE 487: Computer Science Design Project (ACE 10) 3
- CSCE Technical Elective 300 or 400 Level 3
- Science Requirement (ACE 4) 4
- ACE 2: Communication Skills 3
- Elective/Minor/Secondary Major/Science/Pre-Professional 1
- **Total Hours 14**

### SEVENTH SEMESTER
- CSCE Depth Course - CSCE 428 (Theory) or 351 (Systems) 3
- CSCE Technical Elective 300 or 400 Level 3
- CDR D: Social Sciences 3
- ACE 5: Humanities 3
- ACE 7: Fine Arts 3
- **Total Hours 15**

### EIGHTH SEMESTER
- CSCE Depth Course - CSCE 451 (Systems) or CSCE 423 (Theory) 3
- Science Requirement 4
- ACE 6: Social Sciences 3
- ACE 9: Global Awareness & Human Diversity 3
- **Total Hours 13**

**DISCLAIMER:** This document represents a sample 4-year plan for degree completion with a major of interest in the College of Arts and Sciences. Actual course selection and sequence may vary and should be discussed individually with an Academic Advisor at the college and department level.