



Degree Map

CATALOG YEAR: 2021-2022

Degree: BS

MAJOR: Computer Science

Concentration: High Performance Computing

The major map illustrates one path to completing your major, based on faculty members' advice on course sequence and course schedule. This document provides general direction.

| Course | Cr. Hrs. | Course | Cr. Hrs. |
|--|------------------------|---|------------------------|
| FIRST YEAR | | | |
| Semester: Fall | Total Credit Hours: 15 | Semester: Spring | Total Credit Hours: 14 |
| ENGL 1010 Writing Composition I | 3 | ENGL 1020 Writing Composition II | 3 |
| MATH 1910 Calculus I | 4 | MATH 1920 Calculus II | 4 |
| CSC 1020 Connections to Computing ¹ | 1 | Social/Behavioral Science Elective | 3 |
| CSC 1300 Intro to Programming | 4 | CSC 1310 Data Structures & Algorithms | 4 |
| HIST 2010 Early US History | 3 | | |
| Course | Cr. Hrs. | Course | Cr. Hrs. |
| SOPHOMORE YEAR | | | |
| Semester: Fall | Total Credit Hours: 17 | Semester: Spring | Total Credit Hours: 16 |
| CSC 2310 Object Oriented Programming | 3 | COMM 2025 or PC 2500-Communication | 3 |
| CSC 2510 Intro to DevOps with Unix | 3 | CSC 2400 Design of Algorithms | 3 |
| English Literature ² | 3 | CSC 2700 Discrete Structure for CompSci | 3 |
| MATH 2010 Intro to Linear Algebra | 3 | CSC 2770 Intro to Systems & Networking | 3 |
| Science Sequence ³ | 4 | Science Sequence ³ | 4 |
| Course | Cr. Hrs. | Course | Cr. Hrs. |
| JUNIOR YEAR | | | |
| Semester: Fall | Total Credit Hours: 15 | Semester: Spring | Total Credit Hours: 15 |
| CSC 3300 Database Management Sys | 3 | CSC 3040 Prfess, Comm, and Research | 3 |
| CSC 3410 Comp Org and Assembly | 3 | CSC 3710 Found of Comp Science | 3 |
| CSC Elective | 3 | CSC 4200 Computer Networks | 3 |
| Humanities/Fine Arts Elective | 3 | CSC 4760 Parallel Programming | 3 |
| MATH 3070 or MATH 3470 | 3 | Humanities/Fine Arts Elective | 3 |
| Course | Cr. Hrs. | Course | Cr. Hrs. |
| SENIOR YEAR | | | |
| Semester: Fall | Total Credit Hours: 14 | Semester: Spring | Total Credit Hours: 14 |
| CSC 4100 Operating Systems | 3 | CSC 4615 Software Engineering II | 3 |
| CSC 4320 Computer Architeccture | 3 | CSC 4780 Advanced Network & Security | 2 |
| CSC 4610 Software Engineering I | 3 | CSC HPC Elective | 3 |
| CSC 4770 Dist & Cloud Computing | 3 | HIST 2020 Modern US History | 3 |
| Elective | 2 | Social/Behavioral Science Elective | 3 |

Note:

1. Not required for transfer students with more than 12 hours; transfer students take 1 credit hour free elective
2. English Literature: ENGL 2130, or ENGL 2235, or ENGL 2330
3. Science Sequence: One science sequence
 - BIOL 1113 and BIOL 1123 OR BIOL 1113 and BIOL 2310 or
 - CHEM 1110 and CHEM 1120 or
 - GEOL 1040 and GEOL 1045 or
 - PHYS 2010 and PHYS 2020 OR PHYS 2110 and PHYS 2120