

High Performance Computing (HPC)

Freshman

NONE
ENGL 1010 (3)
Writing I

ENGL 1010 (C or Better)
ENGL 1020 (3)
Writing II

NONE
CSC 1020 (1)
Connections to Comp.

General Education¹(3)

General Education¹(3)

CSC 1300 (C or better)
CSC 1310 (4)
Data Structures

CSC 1200 or MATH 1910
CSC 1300 (4)
Intro to Prog
MATH 1910

MATH 1910 (C or better)
MATH 1920 (4)
Calculus II

MATH 1710 & 1720 (C or better) or MATH 1730 (C or better) or ACT (27 or better)
MATH 1910 (4)
Calculus I

Sophomore

Science² (4)

Science² (4)

CSC 1310 (C or better)
CSC 2310 (4)
Object-Oriented Prog

ENGL 1020
PC 2500 (3)
Comm in Professions
ENGL 1020
OR
NONE
COMM 2025 (3)
Found of Comm

CSC 1310 (C or better)
CSC 2510 (3)
Introduction to DevOps and Unix

CSC 1310 (C or better)
CSC 2770 (3)
Intro to Sys and Net

MATH 1910
Math 2010 (3)
Intro to Linear Alg.

CSC 1310 (C or better)
CSC 2700 (3)
Discrete Structures
For Comp Sci.

Engl 1020 (C or better)
English Literature³ (3)

MATH 1920, CSC 1310 (C or better)
CSC 2400 (3)
Design of Algorithms
MATH 1920

Junior

General Education¹(3)

CSC 2400
CSC 4200 (3)
Computer Networks

CSC 1310 (C or better) or both CSC 2110 & CSC 2111; and CSC 2700 or ECE 2110
CSC 3300 (3)
Database Mgmt

General Education¹(3)

CSC Elective³ (3)

Junior Standing, CSC 1310 (C or better)
CSC 3040 (3)
Proff, Comm, and Res

CSC 1310 (C or better)
CSC 3410 (3)
Org & Assembly

CSC 2400
CSC 4200 (3)
Computer Networks

MATH 1130 (C or better) or permit from Math Dept.
MATH 3070 (3)
Statistical Methods I
OR
MATH 1920 (C or better)
MATH 3470 (3)
Intro to Probs and Stats

Senior

Senior Standing, CSC 2310, CSC 2400, CSC 3040, and CSC 3300
CSC 4610 (3)
Software Eng I

CSC Upper-Division Elective³ (3)

CSC 3410
CSC 4770 (3)
Dist and Cloud Comp

General Education¹(3)

CSC 3410
CSC 4320 (3)
Computer Architecture

General Education¹(3)

CSC 3410
CSC 4100 (3)
Operating Systems

CSC 4610 (C or better)
CSC 4620 (3)
Software Eng II

Electives (3)

CSC 4610 (C or better)
CSC 4780 (3)
Adv Network and Sec

Key:

Prerequisites
Course Number (Cr. Hours)
Course Title
Co-requisites

Computer Science Flowchart (Core)

¹ General Education History 2010 or History 2020 OR

¹ General Education Humanities/Fine Arts (9 credit hours, 3 of which must be a literature) OR

¹ General Education Social Science (6 credit hours)

² Science:

Take one science sequence from
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

³ English Literature: Take ENGL 2130, or ENGL 2235, or ENGL 2330.

⁴ CSC Elective: 15 total credits of Electives, with 9 being Upper-Division