



Degree Map

CATALOG YEAR: 2024-2025

Degree: BS

MAJOR: Computer Science

Concentration: Data Science

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: 17	
CSC 1020 Connections to Computing ¹	1	CSC 1310 Data Structures & Algorithms	4
CSC 1300 Intro to Programming	4	MATH 1920 Calculus II	4
MATH 1910 Calculus I	4	ENGL 1020 Writing Composition II	3
ENGL 1010 Writing Composition I	3	HIST 2020 Modern US History	3
HIST 2010 Early US History	3	Social/Behavioral Science Elective	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	4	CSC 2220 Data Sci and AI for Everyone	3
CSC 2510 Intro to DevOps with Unix	3	CSC 2400 Design of Algorithms	3
CSC 2700 Discrete Structure for CompSci	3	MATH 3070 or MATH 3470	3
Science Sequence ²	4	Science Sequence ²	4
COMM 2025 or PC 2500-Communication	3	English Literature ³	3
Course	Cr. Hrs.	Course	Cr. Hrs.
JUNIOR YEAR			
Semester: Fall Total Credit Hours: 15		Semester: Spring Total Credit Hours: 15	
CSC 3220 Fund of Data Science	3	CSC 3040 Prfess, Comm, and Research	3
CSC 3300 Database Management Sys	3	CSC 3710 Found of Comp Science	3
CSC 3410 Comp Org and Assembly	3	CSC 4220 Data Mining & Mach Learning	3
MATH 2010 Intro to Linear Algebra	3	CSC 4320 Comp Architecture	3
Humanities/Fine Arts Elective	3	Humanities/Fine Arts Elective	3
Course	Cr. Hrs.	Course	Cr. Hrs.
SENIOR YEAR			
Semester: Fall Total Credit Hours: 12		Semester: Spring Total Credit Hours: 14	
CSC 4100 Operating Systems	3	CSC 4200 Comp Networks	3
CSC 4240 Artificial Intelligence	3	CSC 4260 Adv Data Science & Apps	3
CSC 4610 Software Engineering I	3	CSC 4615 Software Engineering II	3
Social/Behavioral Science Elective	3	CSC Elective	5

Notes:

- Not required for transfer students with more than 12 hours; transfer students take 1 credit hour free elective
- 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
- English Literature: ENGL 2130, or ENGL 2235, or ENGL 2330