



Degree Map for FIRST LAST T002345678

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 Completed** **Course in Progress** **Course Recommended for Next Semester**

Course	Cr. Hrs.	Course	Cr. Hrs.
<b>FRESHMAN YEAR</b>			
Semester: Fall Total Credit Hours: 15		Semester: Spring Total Credit Hours: 17	
CSC 1020 Connections to Computing <sup>1</sup>	1	Social/Behavioral Science Elective	3
CSC 1300 Into to Programming	4	CSC 1310 Data Structures & Algorithms	4
MATH 1910 Calculus I	4	MATH 1920 Calculus II	4
ENGL 1010 Writing Composition I	3	ENGL 1020 Writing Composition II	3
HIST 2010 Early US History	3	HIST 2020 Modern US History	3
Course	Cr. Hrs.	Course	Cr. Hrs.
<b>SOPHOMORE YEAR</b>			
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 <sup>2</sup>	4	Science Sequence <sup>2</sup>	4
COMM 2025 or PC 2500-Communication	3	English Literature <sup>3</sup>	3
Course	Cr. Hrs.	Course	Cr. Hrs.
<b>JUNIOR YEAR</b>			
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.
<b>SENIOR YEAR</b>			
Semester: Fall Total Credit Hours: 12		Semester: Spring Total Credit Hours: 13	
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	2
Social/Behavioral Science Elective	3	CSC Elective	3
		Elective	2

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