

COMPUTER SCIENCE

Bachelor of Science (BS)

This is a guide based on the 2024-2025 Undergraduate Bulletin and is subject to change. The time it takes to earn a degree will vary based on several factors such as dual enrollment, remediation, and summer enrollment. Students will meet with an academic advisor each semester and use Degree Works to monitor their individual progress.

CURRICULUM CHECKLIST

84 Hour Major – No Minor Required

Required courses:

- ___ CS101 Introduction to Computer Programming (3)
- ___ CS155 Computer Science I (4)
- ___ CS245 Discrete Structures I (3)
- ___ CS265 Computer Science II (4)
- ___ CS288 Computer Systems & Assembly Language (4)
- ___ CS300 Computer Science III (3)
- ___ CS345 Discrete Structures II (3)
- ___ CS350 Analysis of Algorithms (3)
- ___ CS351 C and POSIX Environment (4)
- ___ CS380 Computer Operating Systems (3)
- ___ CS390 Programming Languages (3)
- ___ CS433 Data Analytics (3)
- ___ CS440 Database (3)
- ___ CS445 Software Engineering I (3)
- ___ CS480 Data Communications (3)
- ___ CS495 Senior Seminar (1)
- ___ CS499 Capstone Experience (3)
- ___ CS591 Advanced Artificial Intelligence (3)
- ___ CY201 Introduction to Cybersecurity (3)
- ___ IU315 Ethics in the Cyber World (3)
- ___ MA139 Applied Calculus (3)
- ___ MA223 Elementary Probability and Statistics (3)
- ___ MA464 Mathematical Cryptography (3)
- ___ CSxxx 300 level and above (6)

Choose 2 science courses with lab:

- ___ BI163/063 Evolution and Ecology (4)
- ___ CH184/185 General Chemistry I and lab (3+1)
- ___ PH120/020 Introductory Physics I (5)

NOTE: A minimum grade of 'C' or better is required in each course that is a prerequisite course.

General Education Requirements – some requirements may be

fulfilled by coursework in major program

- Social and Behavioral Sciences – 6 hours
- Constitution Requirement – 3 hours
- Written Communication – 6 hours
- Oral Communication – 3 hours
- Natural Sciences – 7 hours (from two disciplines, one to include a lab)
- Mathematics – 3 hours
- Humanities & Fine Arts – 9 hours (from at least two disciplines)
- Additional requirements – 5 hours (to include UI100 for native students)
- Civics examination



SAMPLE FOUR-YEAR PLAN

	Fall Semester		Spring Semester	
	Course #	Hrs	Course #	Hrs
FIRST YEAR	UI100	1	CS155	4
	EN100	3	CS245	3
	CS101	3	IU315	3
	General Education	3	MA139	3
	General Education	3	General Education	3
	Total	13	Total	16
SECOND YEAR	CS265	4	CS300	3
	CS288	4	CS380	3
	CS351	4	MA223	3
	General Education	3	General Education	3
	General Education	3	General Education	3
	Total	15	Total	15
THIRD YEAR	CS345	3	CS433	3
	CS390	3	CS591	3
	CS440	3	CY201	3
	CS480	3	Natural Science course*	4-5
	General Education	3	General Education	3
	Total	15	Total	16-17
FOURTH YEAR	CS350	3	CS495	1
	CS445	3	CS499	3
	CS300-599	3	CS300-599	3
	Natural Science course*	4-5	MA464	3
	General Education	3	Elective	0-1
	Total	16-17	Total	13-14

*One of the science courses will satisfy either Living Systems or Physical Systems

A minimum 2.0 GPA in the major is required to graduate with a Bachelor of Science degree.

Degree requirements for all students: a minimum of 120 credit hours, completion of the General Education program, and completion of 39 senior division hours (300-599). Refer to the Undergraduate Bulletin or Degree Works for additional graduation requirements for your program.

NOTE: The Bachelor of Science with a major in Computer Science is accredited by the Computing Accreditation Commission (CAC) Accreditation Commission(s) of ABET, <https://www.abet.org>, under the General Criteria and the Computer Science Program Criteria.

Revised
2/9/2024

2024-2025 degree map

