

COMPUTER SCIENCE | BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Degree Maps

Course	Title	Hours
First Year		
Fall		
MATH 110 or MATH 105	College Algebra (Math Pathway Gateway Course: SGE030 - Math and Statistics Discipline Area) or College Algebra with Review	3
ENG 101	English Composition I (SGE010 - English Discipline Area)	3
COMM 100	Fundamentals of Oral Communication (SGE020 - Communication Discipline Area)	3
UNIV 101	Freshman Seminar	1
CSCI 111	Survey of Computer Science	3
Hours		13
Spring		
INF 101	Introduction to Computer Information Systems (SGE070 - Institutionally Designated Area: Personal and Professional Development)	3
SGE040 - Natural and Physical Science Discipline Area		4
ENG 102	English Composition II (SGE010 - English Discipline Area)	3
CSCI 121	Computer Science I	3
MATH 122	Plane Trigonometry	3
Hours		16
Second Year		
Fall		
SGE060 - Arts and Humanities Discipline Area		3
CSCI 221	Computer Science II	3
INF 250	Introduction to Web Development	3
MATH 234	Analytic Geometry and Calculus I	5
Hours		14
Spring		
SGE060 - Arts and Humanities Discipline Area		3
CSCI 231	Object-Oriented Programming	3
CSCI 241	Foundations of Computing	3
INF 652	Database Design and Programming	3
MATH 250 or MATH 245	Elements of Statistics or Elements of Statistics with Review	3
Hours		15
Third Year		
Fall		
SGE050 - Social and Behavioral Sciences Discipline Area		3
CSCI 251	Data Structures	3
CSCI 321	Assembly Language	3
INF 651	Front End Web Development I	3
Open Electives		3
Open Electives		2
Hours		17
Spring		
SGE050 - Social and Behavioral Sciences Discipline Area		3
CSCI 331	Operating Systems	3
CSCI 421	Programming Languages	3
INF 653	Back-End Web Development I	3
Open Electives		3
Hours		15

Fourth Year

Fall

CSCI 441	Software Engineering	3
CSCI 431	Computer Graphics	3
Open Electives		3
Open Electives		3
PHIL 100	Critical Thinking (SGE070 - Institutionally Designated Area: Critical Thinking)	3

Hours **15**

Spring

CSCI 675	Seminar in Software Engineering	3
Open Electives		3
Open Electives		3
Open Electives		3
Open Electives		3

Hours **15**

Total Hours **120**

Academic Degree Maps are term-by-term sample course plans that specify milestones, courses, and special requirements that are necessary for facilitating on-time completion. Degree Maps are *examples* and are not prescriptive. Individualized choices such as concentration options, transfer credits, optional minors, advisory programs (certificates), etc. can alter the recommended coursework. Course offerings are subject to change. Students should consult with their academic advisors for additional guidance on course planning.

To determine courses to take in the directed choices (often listed as Program Elective Course) and directed elective course blocks see the overview tab for courses. Open electives indicate the student is free to choose courses from any subject, but students should discuss with their advisor how many of these hours must be upper division. To locate approved courses in General Education areas (Undergraduate Programs) see the general education section (<https://catalog.fhsu.edu/general-education/>) of the catalog.

The undergraduate course maps typically advise the most efficient route for students to complete the general education requirements. Courses that are required in the major may be listed as fulfilling relevant general education requirements. This will result in more open elective course hours in some maps than is listed on the degree overview page.