COMPUTER SCIENCE - WEB DEVELOPMENT (BACHELOR OF SCIENCE)

The Computer Science major emphasizes the development of large software systems. It consists of prescriptive courses and elective courses.

Title

Course

Jax MIX General Education Curriculum					
Course	Title	Credits			
Prescriptive Courses					
CS 230	Fundamentals of Computing	3			
CS 231	Computer Programming I	3			
CS 232	Computer Programming II	3			
CS 234	Discrete Computational Structures	3			
CS 304	Technical Writing for Computer Science (WI)	3			
CS 310	Software Engineering I	3			
CS 331	Data Structures and Algorithms	3			
CS 333	Computer Organization and Architecture	3			
CS 350	Fundamentals of Computer Operating Systems	3			
CS 450	Computer Networking	3			
CS 462	Ethics and Legal Issues (WI)	3			
CS 488	Database Systems	3			
CS 491	Software Engineering II	3			
Web Technologies Development					
CS 315	Intro to Web Design	3			
CS 325	Web Scripting	3			
CS 415	Dynamic Web Application	3			
CS 425	Web Application Development Using Web Servi	ces 3			

Courses in the major may not be taken until all prerequisites are completed with a grade of "C" or better.

In addition to the major courses, support courses required are:

Course	Title	Credits
MS 125	Calculus I	4
MS 126	Calculus II	4
MS 302	Applied Probability and Statistics	3
MS 352	Linear Algebra	3

Note: This schedule reflects the computer science program beginning with MS 125 (https://catalog.jsu.edu/search/?P=MS%20125) Calculus I (4). Freshman computer science majors needing additional preparation before beginning calculus will be placed in the appropriate algebra or precalculus courses that provide this preparation. See advisor.

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations. More information about Jax MIX requirements (https://catalog.jsu.edu/undergraduate/jax-mix-requirements/) and Alabama Transfers equivalents (https://catalog.jsu.edu/undergraduate/alabama-transfers-equivalents/) can be found in their respective section of the catalog.

Freshman

Credits

Freshman		
Fall		Hours
Jax MIX Communication: EF	Composition sequence	3
Jax MIX Inquiry: Science sec	juence	4
CS 201	Introduction to Information Technology	3
CS 230	Fundamentals of Computing	3
SSC 101	First Year Experience	0
	Hours	13
Spring		
Jax MIX Communication: El-	Composition sequence	3
EH 141	Speech (Jax MIX Communication)	3
Jax MIX Inquiry: Science sec	juence	4
CS 231	Computer Programming I	3
CS 234	Discrete Computational Structures	3
	Hours	16
Sophomore Fall		
Jax MIX Expression: Fine Ar		3
MS 125	Calculus I (Jax MIX Communication)	4
Jax MIX Experience: History		3
CS 232	Computer Programming II	3
CS 304	Technical Writing for Computer Science (WI)	3
	Hours	16
Spring	1	
Jax MIX Experience (History	. ,	3
MS 126	Calculus II	4
CS 310	Software Engineering I	3
CS 331	Data Structures and Algorithms	3
CS 333	Computer Organization and Architecture	3
Junior Fall	Hours	16
Jax MIX Expression: Literatu	ire	3
Jax MIX Experience: Social/	Behavioral Science	3
MS 302	Applied Probability and Statistics	3
CS 488	Database Systems	3
Computer Science Electives	2	3
Spring	Hours	15
Jax MIX Expression (Literatu	re if sequence) ¹	3
Jax MIX Experience: Social/		3
MS 352	Linear Algebra	3
CS 350	Fundamentals of Computer Operating Systems	3
CS 491	Software Engineering II	3
Senior Fall	Hours	15
CS 450	Communitor Naturalian	2
Computer Science Electives	Computer Networking 2	3
		3
Electives		8
Spring	Hours	14
CS 462	Ethics and Legal Issues (WI)	3
Computer Science Electives		3
Computer Science Electives		3
Electives		6
	Hours	15
	Total Hours	120

- 2 Computer Science Web Development (Bachelor of Science)
- Either a history sequence or a literature sequence is required.
- Web Development Courses: CS 315 Intro to Web Design (3), CS 325 Web Scripting (3), CS 415 Dynamic Web Application (3), and CS 425 Web Application Development Using Web Services (3).