120

COMPUTER SCIENCE -GENERAL (BACHELOR OF SCIENCE)

Title

Course

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

Credits

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	
General			
Computer Science Approved 300+ courses			
Computer Science Approved 400+ Electives			

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		
Fall		Hours
Jax MIX Communication: EH	Composition Sequence	3
Jax MIX Inquiry: Science Seq	uence	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: EH	Composition Sequence	3
EH 141	Speech (Jax MIX Communication)	3
Jax MIX Inquiry: Science Seq	uence	4
CS 231	Computer Programming I	3
CS 234	Discrete Computational Structures	3
	Hours	16
Sophomore		
Fall		
Jax MIX Expression: Fine Art	s	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		
MS 126	Calculus II	4
Jax MIX Experience (History		3
CS 310	Software Engineering I	3
CS 331	Data Structures and Algorithms	3
CS 333	Computer Organization and Architecture	3
	Hours	16
Junior		
Fall		
Jax MIX Expression: Literatu	re	3
Jax MIX Experience: Social/E		3
CS 488	Database Systems	3
Computer Science Electives		3
MS 302	Applied Probability and Statistics	3
	Hours	15
Spring		
Jax MIX Expression (Literatu	re if sequence) 1	3
Jax MIX Experience: Social/E		3
CS 350	Fundamentals of Computer Operating Systems	3
CS 491	Software Engineering II	3
MS 352	Linear Algebra	3
	Hours	15
Senior		
Fall		
CS 450	Computer Networking	3
Computer Science Electives		3
Electives		8
	Hours	14
Spring		• •
CS 462	Ethics and Legal Issues (WI)	3
Computer Science Electives		3
Computer Science Electives Computer Science Electives 2		
Electives		3
	Hours	15
		13

Total Hours

- 2 Computer Science General (Bachelor of Science)
- Either a history sequence or a literature sequence is required.
- Computer Science Electives should have two courses numbered 300+ and two courses numbered 400+.