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COMPUTER SCIENCE - INFORMATION ASSURANCE (BACHELOR OF SCIENCE)

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

Credits

Fall CS 450

Electives

Spring

CS 462

Computer Science Electives 2

Computer Science Electives 2

Computer Science Electives 2

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		
Information Assurance				
CS 307	Management of Information Security and Forensics	3		
CS 308	Embedded and Control Systems Security	3		
CS 470	Computer Security	3		
Select one of the	following:	3		
CS 412	Disaster Response & Recovery			
CS 425	Web Application Development Using Web Service	ces		
CS 461	Critical Infrastructure			

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.

Touriu iii tileli Tespect	ive section of the catalog.	
Freshman		
Fall		Hours
Jax MIX Communication: EF	·	3
Jax MIX Inquiry: Science Sec		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-	1 Composition Sequence	3
EH 141	Speech (Jax MIX Communication)	3
Jax MIX Inquiry: Science Sec	quence	4
CS 231	Computer Programming I	3
CS 234	Discrete Computational Structures	3
	Hours	16
Sophomore		
Fall		
Jax MIX Expression: Fine Ar	ts	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		
Jax MIX Experience (History	if sequence) 1	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
	Hours	16
Junior		
Fall		
Jax MIX Expression: Literatu	ıre	3
Jax MIX Experience: Social/Behavioral Science		
CS 488	Database Systems	3
Computer Science Electives	2	3
MS 302	Applied Probability and Statistics	3
	Hours	15
Spring		
Jax MIX Expression (Literatu	ure if sequence) ¹	3
Jax MIX Experience: Social/	Behavioral Science	3
CS 350	Fundamentals of Computer Operating Systems	3
CS 491	Software Engineering II	3
MS 352	Linear Algebra	3
	Hours	15
Senior		

Computer Networking

Ethics and Legal Issues (WI)

Computer Science - Information Assurance (Bachelor of Science)

Electives		6
	Hours	15
	Total Hours	120

Either a history sequence or a literature sequence is required.

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² Refer to specific elective requirements for each concentration.