COMPUTER INFORMATION SYSTEMS - DATA SCIENCE (BACHELOR OF SCIENCE)

The Computer Information Systems major emphasizes the development and maintenance of business software systems. It consists of prescriptive courses and elective courses.

Course	Title	Credits
Jax MIX General Education Curriculum		**41**

Course	Title	Credits
Prescriptive Courses		
CS 230	Fundamentals of Computing	3
CS 231	Computer Programming I	3
CS 232	Computer Programming II	3
CS 304	Technical Writing for Computer Science (WI)	3
CS 309	Introduction to E-Commerce	3
CS 310	Software Engineering I	3
CS 311	Management Information Systems (WI)	3
CS 333	Computer Organization and Architecture	3
CS 350	Fundamentals of Computer Operating Systems	3
CS 372	Information Systems Project Management	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
Data Science		
CS 306	Introduction to Data Science	3
CS 445	Predictive Analysis	3
CS 489	Business Intelligence	3
CS 480	Special Topics in Data Science	3
MS 444	Applied Statistical Methods	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
ACC 200	Principles of Accounting I	3
EC 221	Principles of Microeconomics	3
FIN 301	Business Finance	3
MGT 301	Principles of Management	3
MKT 301	Principles of Marketing	3
MS 120 or MS 125	Calculus and Its Applications Calculus I	3-4
MS 302	Applied Probability and Statistics	3

Note: This plan of study reflects the computer information systems program beginning with MS 120 (https://catalog.jsu.edu/search/?P=MS%20120) Calculus and Its Applications (3) or MS 125 (https://catalog.jsu.edu/search/?P=MS%20125) Calculus I (4). Freshman computer information systems 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 sequence		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 sequence		4
CS 231	Computer Programming I	3
CS 309	Introduction to E-Commerce	3
	Hours	**16**
Sophomore		
Fall		
MS 120 or MS 125	Calculus and Its Applications (Jax MIX Communication) or Calculus I	4
Jax MIX Experience: History		3
ACC 200	Principles of Accounting I	3
CS 232	Computer Programming II	3
CS 304	Technical Writing for Computer Science (WI)	3
	Hours	**16**
Spring		
Jax MIX Expression: Fine Arts		3
Jax MIX Experience (History if sequence) [1]		3
EC 221	Principles of Microeconomics (Jax MIX Experience)	3
CS 310	Software Engineering I	3
CS 311	Management Information Systems (WI)	3
	Hours	**15**
Junior		
Fall		
Jax MIX Expression: Literature		3
CS 306	Introduction to Data Science	3
CS 372	Information Systems Project Management	3
CS 488	Database Systems	3
Electives		3
	Hours	**15**
Spring		
Jax MIX Expression (Literature if sequence) [1]		3
MGT 301	Principles of Management	3
MS 302	Applied Probability and Statistics	3
CS 350	Fundamentals of Computer Operating Systems	3
CS 491	Software Engineering II	3
	Hours	**15**
Senior		
Fall		
MKT 301	Principles of Marketing	3
CS 333	Computer Organization and Architecture	3
CS 445	Predictive Analysis	3
CS 450	Computer Networking	3

MS 444	Applied Statistical Methods	3
	Hours	**15**
Spring		
PSY 201	Principles of Psychology (Jax MIX Experience)	3
FIN 301	Business Finance	3
CS 462	Ethics and Legal Issues (WI)	3
CS 480	Special Topics in Data Science	3
CS 489	Business Intelligence	3
	Hours	**15**
	Total Hours	**120**

[1] Either a history sequence or a literature sequence is required.