

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
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 370	COBOL for Information 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
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 Calculus and Its Applications (3) or MS 125 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 general education requirements can be found in the Summary of Degrees/Requirements (<https://catalog.jsu.edu/undergraduate/summary-degrees-requirements/>) section of the catalog.

Freshman		
Fall		Hours
EH Composition sequence		3
Natural 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		
EH Composition sequence		3
EH 141	Speech	3
Natural 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 or Calculus I	4
History		3
CS 232	Computer Programming II	3
CS 304	Technical Writing for Computer Science (WI)	3
ACC 200	Principles of Accounting I	3
Hours		16
Spring		
Fine Arts		3
History/Social/Behavioral Science ¹		3
EC 221	Principles of Microeconomics	3
CS 311	Management Information Systems (WI)	3
CS 310	Software Engineering I	3
Hours		15
Junior		
Fall		
EH Literature		3
CS 306	Introduction to Data Science	3
CS 370	COBOL for Information Systems	3
CS 488	Database Systems	3
Electives		3
Hours		15
Spring		
Humanities & Fine Arts ¹		3
CS 350	Fundamentals of Computer Operating Systems	3
CS 491	Software Engineering II	3
MGT 301	Principles of Management	3
MS 302	Applied Probability and Statistics	3
Hours		15
Senior		
Fall		
CS 333	Computer Organization and Architecture	3
CS 445	Predictive Analysis	3
CS 450	Computer Networking	3
MKT 301	Principles of Marketing	3
MS 444	Applied Statistical Methods	3
Hours		15
Spring		
PSY 201	Principles of Psychology	3
FIN 301	Business Finance	3
CS 462	Ethics and Legal Issues (WI)	3

2 Computer Information Systems - Data Science (Bachelor of Science)

CS 489	Business Intelligence	3
CS 480	Special Topics in Data Science	3
Hours		15
Total Hours		120

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