

Bachelor of Science in Information Systems -- 120 Credits

(Geographic Information Systems)

JIS-BS / JBSGIS-SP (RG 7661)

Effective August 2025

GENERAL EDUCATION REQUIREMENTS (RG 6793)

REQUIRED COURSES (RG 6864)

Foundational Courses		CR	Satisfied/Term
Engcmp 0005	Composition I	3	
Engcmp 0006	Composition II	3	
CommRc 0052	Public Speaking	3	
Basic Algebra or Placement Test			
Math 0001	Algebra 1	3	
Quantitative Reasoning (QR) - 1 Course			
Note - a student cannot test out of their QR requirement.			
		3	

FREE ELECTIVES

Free electives are the balance of credits required for graduation (120) that are not used to satisfy competencies, knowledge areas, major requirements, electives, or any related area required by the department.			
	CR	Satisfied/Term	

WORLDS OF KNOWLEDGE (RG 6874)

Aesthetic and Creative Expression (RQ 3148)				
Subject	Number	Course Title	CR	Satisfied/Term
Engwrt	1192	Technical Writing	3	
			3	
Societies & Civics (RQ 3150)				
Subject	Number	Course Title	CR	Satisfied/Term
Econ	0105	Microeconomic Theory	3	
			3	
Follow-Up Courses (RQ 3154)				
Subject	Number	Course Title	CR	Satisfied/Term
Math	0401	Discrete Math Struct	3	

Global History & Culture (RQ 3149)				
Subject	Number	Course Title	CR	Satisfied/Term
Econ	0115	Macroeconomic Theory	3	
			3	
Science & Nature (RQ 3153)				
Subject	Number	Course Title	CR	Satisfied/Term
CS	0015	Intro to CS Programming	3	
Math	0121	Business Calculus	4	

Each student must take 2 courses in each World of Knowledge. The two courses taken within each World must be from different subjects. A student must take two additional "Follow-Up" courses from any World.

- >The minimum number of courses taken in the Worlds must be 10.
- >The Follow-Up courses may repeat a subject previously taken in a World.
- >A student cannot use a major required Subject course in one of the Worlds.
- >For example: A Biology student cannot use BIOL 0110 to fulfill a requirement in the Science and Nature World.
- >Students cannot use a course to count both in their QR requirement and one of the Worlds.
- >Students can choose QR and Worlds of Knowledge courses from published course lists.

MAJOR REQUIREMENTS (RG 7661)

Required Economics (RQ 3179)		CR	Satisfied/Term
Econ 0105	Microeconomic Theory	3	
Econ 0115	Macroeconomic Theory	3	
Required Math and CS (RQ 3219,3180,3181)		CR	Satisfied/Term
Math 0401	Discrete Math Struct	3	
Math 0121*	Business Calculus	4	
CS 0015	Intro to CS Programming	3	
CS 0016	Intro to CS Progr Appl	1	
Required Writing (RQ 3182)		CR	Satisfied/Term
Engwrt 1192	Technical Writing	3	
Requirement Satisfied		20	

IS Core (RQ 3770)		CR	Satisfied/Term
IS 0400*	Intro to Information Systems	3	
IS 1410	Database Management Systems	3	
IS 1420	Systems Analysis & Design	3	
IS 1435	IS Project Management	3	
IS 1440	Quality Assurance	3	
Requirement Satisfied		15	

Geography Required (RQ 3772)		CR	Satisfied/Term
Geo 0130	Economic Geography	3	
Geo 0420	Cartography	3	
Geo 1150	GIS	3	
Geo 1160	Remote Sensing	3	
Geo 1170	GIS Special Projects	3	
Geo Elective		3	
Requirement Satisfied		18	

GIS Electives (RQ 3771)		CR	Satisfied/Term
IS 1415	Web Development	3	
IS 1428	Mobile Apps	3	
IS 1441	Business Intelligence	3	
Select two of the following courses			
IS 1412	Graphic Design	3	
IS 1425	Networking	3	
IS 1426	Hardware / Operating Systems	3	
IS 1427	Systems Administration	3	
IS 1445	IS Special Topics	3	
IS 1450	Enterprise Applications	3	
IS 1470	Information Security	3	
IS 1471	Advanced Information Security	3	
IS 1478	Ethical Hacking	3	
IS 1488	IS Internship	3	
IS 1489	IS Independent Study	3	
CS 0417	Intern Prog Using Java	3	
Requirement Satisfied		15	

Required Statistics (RQ 4998)		CR	Satisfied/Term
Complete one of the following courses			
CS 0406	Discrete Math 2 and Statistics	3	
Stat 1020	Social Statistics	3	
Stat 1040	Statistics for Bus/Econ	3	
Requirement Satisfied		3	

* Course must be completed with a minimum grade of "C-"

MGPA (RQ 3773)
Residency (RQ 3774)

Updated 4/25/25

IMPORTANT INFORMATION:

This sheet is an unofficial representation of the major requirements and the information is subject to change. It is not an official record of academic progress and should not be treated as such. Official degree information can only be obtained through the Division Office or the Office of the Registrar.