

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	
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Quantitative Reasoning (QR) - 1 Course

<i>Note - a student cannot test out of their QR requirement.</i>		
	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	

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.

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	

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	

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

Reviewed 4/1/2026

MGPA (RQ 3773)

Residency (RQ 3774)

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.

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	

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	

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	

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	