Plan of Study

Mathematics
Information Systems Specialization
Catalog Year: 2023-2024

Sample Schedule: students are not limited to this plan; it is meant to serve as a guide for planning purposes in discussions with your academic advisor. This plan is one possible path to completing this degree in *four years.*

Students obtaining a degree in Computer Science, Computer Game Design, Physical Science, Biology only need to complete the Mathematics Component to obtain a second major in Mathematics with a specialization in Info Systems.

FIRST YEAR

First Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
SGR Written Communication (ENGL 101)		3	F, S
SGR Natural Science		3	F, S, SU
MATH 123 Calculus I	Majors must take MATH 123 for SGE Requirement.	4	F, S, SU
CSC 105 Intro to Computers		3	F, S, SU
SGR Social Science		3	F, S
GS 100 University Experience: MATH		0	F
	Total Credit Hours	**16**	

Second Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
SGE Natural Science		3	F, S, SU
MATH 125 Calculus II	MATH 123	4	S, SU
CSC 150 Computer Science I		3	F, S, SU
SGR Oral Communication		3	F, S
SGR Arts and Humanities		3	F, S
	Total Credit Hours	**16**	

SECOND YEAR

Third Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
MATH Elective		3	F, S
CIS 251 Business Applications Programming	CSC 150	3	S | F/S/SU
SGR Written Communication		3	F, S
SGR Social Science		3	F, S
Elective (Minor)	Consult with academic advisor to select a minor.	3	
	Total Credit Hours	**15**	

Fourth Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
MATH 201 Intro to Discrete Math	MATH 104 or MATH 114 or MATH 115 or MATH 120 or MATH 123	3	F, S, SU
MATH 281 Intro to Statistics	MATH 114 or MATH 115 or MATH 121 or MATH 123	3	F, S, SU
CIS 325 Management Information Systems		3	F | F/S/SU

Course	Prerequisites / Comments	Credits	Semester(s) Offered
SGR Arts and Humanities		3	F, S
Elective (Minor)		3	
	Total Credit Hours	**15**	

THIRD YEAR

Fifth Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
MATH 316 Discrete Mathematics	MATH 123 or MATH 201 or MATH 225	3	F, S, SU
CIS 332 Structured Systems Analysis & Design	CIS 123 or CIS 130 or CIS 150	3	F/S | F/S/SU
Elective (Minor)		3	
Elective		3	
Elective		3	
	Total Credit Hours	**15**	

Sixth Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
MATH 315 Linear Algebra	MATH 123, 201, or 225	3	S
MATH Elective		3	F, S
CSC 161 or CSC 163 Computer Hardware, Data Communications, and Networking	Hardware/Virtualization/Datacom	3	F,S or S|F,S
Elective (Minor)		3	
Elective		2	
	Total Credit Hours	**14**	

DFOURTH YEAR

Seventh Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
MATH Elective		3	F, S
CIS 484 Database Management Systems		3	F,S|F,S,SU|S
Elective (Minor)		3	
Elective		3	
Elective		3	
	Total Credit Hours	**15**	

Eighth Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
MATH Elective		3	F, S
CIS/CSC Elective		3	
Elective (Minor)		3	
Elective		5	
	Total Credit Hours	**14**	

P = Course Prerequisite

Semester: F = Fall; S = Spring; SU = Summer

Information and course schedules may change. This is not a contract.