

BACHELOR OF SCIENCE IN SOFTWARE ENGINEERING (MATHEMATICS CONCENTRATION)

FRESHMAN - FALL SEMESTER			FRESHMAN - SPRING SEMESTER		
ENG 1113	Communication: English Composition I	3	ENG 2213 / ENG 3813	Communication: (Composition Options)*	3
MAT 1195	Reasoning: Calculus I	5	UNI 1121	Reasoning: Introduction to Critical Thinking	1
UNI 1111	Opportunities: University Seminar	1	CIS 1144	Computer Science I	4
CIS 1033	Foundations of Computer Science	3	MAT 1173	Discrete Mathematics	3
CIS 1163	Personal Cybersecurity	3	MAT 2255	Calculus II	5
Total Credits		15	Total Credits		. 16
SOPHOMORE - FALL SEMESTER			SOPHOMORE	E - SPRING SEMESTER	
ECO 2023	Society: Principles of Microeconomics	3	DISCOVER	Inquiry: (Inquiry Options)*	4
DISCOVER	Communication: (Communication Options)	3	CIS 1141	Introduction to Linux and Scripting	1
CIS 1154	Computer Science II	4	CIS 2003 or CIS 3553	Web and User Experience Design or Software Quality Assurance and Testing	3
MAT 2263	Calculus III	3	CIS 2213	System Analysis and Design	3
MAT 3343	Mathematical Statistics	3	CIS 2253	Full Stack Web Development	3
Total Credits		16	Total Credits		. 14
JUNIOR - FALL SEMESTER				RING SEMESTER	
DISCOVER	Enrichment: (Enrichment Options)	3	BIB 1013 or CIS 3033	Values: Old Testament History or Secure Software	3
DISCOVER or CIS 3313	Society: (American Studies Options) or Advanced System Analysis and Design	3	CIS 2003 or CIS 3553	Web and User Experience Design or Software Quality Assurance and Testing	3
CIS 2013	Networking and Cloud Computing	3	CIS 3333	Algorithms and Data Structures	3
CIS 3123	Survey of Data Science	3	CIS 3433 or CHOICE	Artificial Intelligence and Machine Learning <i>or</i> Mathematics Choice	3
CIS 3323	Database Management System Design	3	CIS 3852	Computing Ethics and Professional Development	2
CIS 3412	Machine Organization	2			
Total Credits		17	Total Credits		. 14
SENIOR - FALL SEMESTER			SENIOR - SPRING SEMESTER		
BIB 1023	Values: New Testament History	3	BIB 1013 or CIS 3033	Values: Old Testament History or Secure Software	3
DISCOVER	Discipline: (Discipline Options)	3	DISCOVER	Values: (Cultural Awareness Options)	2
DISCOVER or CIS 3313	Society: (American Studies Options) or Advanced System Analysis and Design	3	DISCOVER	Values: (Spiritual Formation Options)	2
CIS 4462	Applied Software Engineering I	2	CIS 2003 or CIS 3553	Web and User Experience Design <i>or</i> Software Quality Assurance and Testing	3
CIS 4981	Internship in Computing	1	CIS 3433 or CHOICE	Artificial Intelligence and Machine Learning or Mathematics Choice	3
MAT 3323	Linear Algebra	3	CIS 4472	Applied Software Engineering II	2
		15	Total Credits		. 15

DISCOVER Core Curriculum

*Major Requirements

Total Credits to Graduate: 122

Updated Spring 2025