



2024 – 2025
Information Systems Concentration in
Web Development
Bachelor of Science Degree
Academic Plan

Fall Year 1	Courses	Prerequisite(s)	Credits	
CIS 1110A	Computer Operating Systems and Maintenance		3	15
COM 1010	Composition and Critical Thinking I		3	
CS 1110A	Programming in Python		3	
MTH 1010	Quantitative Literacy		3	
NET 1010	Networking Essentials		3	
Spring Year 1	Courses	Prerequisite(s)	Credits	
CIS 2210	Database Management and Design		3	15
COM 1020	Composition and Critical Thinking II	COM 1010, MTH 1010	3	
ELECTIVE	General Education Elective	As needed per choice	3	
MGT 1010	Introduction to Business		3	
MTH 2750	Statistical Methods	MTH 1010 or MTH 1110	3	
Fall Year 2	Courses	Prerequisite(s)	Credits	
CIS 3310	Introduction to Cloud Computing and Security	NET 1010	3	15
ELECTIVE	General Education Elective	As needed per choice	3	
MGT 2020	Organizational Behavior and Management	COM 1020, MGT1010	3	
PSY 2050	Self and Society	COM 1010, MTH 1010; Co-requisite: COM 1020	3	
WEB 1110	Introduction to HTML		3	
Spring Year 2	Courses	Prerequisite(s)	Credits	
CIS 3510	System Modeling and Design	CIS 2210 and CS 1110A or CS 2150 or CS 2410 or CS 3110	3	15
CS 3950	Big Data Analytics	MTH 2750 and CS 1110A or CS 2150 or CS 2410 or CS 3110	3	
ELECTIVE	Open Elective	As needed per choice	3	
MGT 2310	Management Information Systems	COM 1020, MGT 1010	3	
WEB 2110A	Front-End Web Development	WEB 1110	3	
Fall Year 3	Courses	Prerequisite(s)	Credits	
CIS 4210	Database Administration I	CIS 2210	3	15
CS 2410	Java Programming		3	
ELECTIVE	Open Elective	As needed per choice	3	
SOC 3050	Personal, Civic, and Global Perspectives	COM 1010, MTH 1010, PSY 2050	3	
WEB 2050	Essentials of UI/UX Design	WEB 1110	3	

Spring Year 3		Courses	Prerequisite(s)	Credits	
CIS 4310	Enterprise Architecture	CIS 3510	3	15	
ELECTIVE	Open Elective	As needed per choice	3		
HUM 3910	Integrated Seminar	COM 1010, MTH 1010, PSY 2050, SOC 3050	3		
PPM 3010	Project Management		3		
WEB 3350	Back-End Web Development	WEB 2110A	3		
Fall Year 4		Courses	Prerequisite(s)	Credits	
CIS 4410	IS Strategy, Management and Acquisition	CIS 4310	3	15	
ELECTIVE	Scientific Inquiry Elective	As needed per choice	3		
ELECTIVE	Open Elective	As needed per choice	3		
ITS 3210	Legal and Ethical Issues in Information Technology	Junior Status	3		
GSD 3510	Android Mobile Application Development	CS 2410	3		
Spring Year 4		Courses	Prerequisite(s)	Credits	
CIS 4990A	Senior Project	CIS 4410 and Senior Status	3	15	
CIS 4950	Special Topics in Information Systems	Senior status	3		
ELECTIVE	Open Elective	As needed per choice	3		
CIS 3810	iOS Application Development	CS 2410	3		
WRK 4850	CoIT Work Experience	Senior status	3		
Program Total				120	

Open Electives:

Open Electives may be from any prefix. Prerequisites need to be fulfilled for any elective courses.