



**2022 - 2023**  
**Information Systems**  
**Concentration in Information Assurance**  
**Bachelor of Science Degree**  
**Academic Plan**

<b>Fall Year 1</b>		<b>Courses</b>	<b>Prerequisite(s)</b>	<b>Credit Hours</b>
CIS 1110A	Computer Operating Systems And Maintenance			3
COM 1010	Composition and Critical Thinking I			3
CS 1110A	Programming in Python	Co-requisite(s): MTH 1010		3
MTH 1010	Quantitative Literacy			3
NET 1010	Networking Essentials	Co-requisite(s): CIS 1110A		3
				<b>15</b>
<b>Spring Year 1</b>		<b>Courses</b>	<b>Prerequisite(s)</b>	<b>Credit Hours</b>
CIS 2210	Database Management And Design	CS 1110A or CIS 1110A		3
COM 1020	Composition and Critical Thinking II	COM 1010, MTH 1010		3
ITS 2110	Introduction to Network Security	NET 1010		3
MGT 1010	Introduction to Business			3
MTH 2750	Statistical Methods	MTH 1010 or MTH 1110		3
				<b>15</b>
<b>Fall Year 2</b>		<b>Courses</b>	<b>Prerequisite(s)</b>	<b>Credit Hours</b>
ELECTIVE	General Education Elective	As needed per choice		3
ELECTIVE	Program Elective	As needed per choice		3
CIS 3310	Introduction to Cloud Computing and Security	CIS 2210, NET 1010		3
ITS 3210	Legal and Ethical Issues in Information Technology	CIS 1110A or NET 1010		3
PSY 2050	Self and Society	COM 1010, MTH 1010; Co-requisite(s): COM 1020		3
				<b>15</b>
<b>Spring Year 2</b>		<b>Courses</b>	<b>Prerequisite(s)</b>	<b>Credit Hours</b>
CIS 3510	Systems Modeling and Design	CIS 2210		3
CS 3950	Big Data Analytics	CS 1110A, MTH 2750		3
ELECTIVE	General Education Elective	As needed per choice		3
MGT 2020	Organizational Behavior and Management	COM 1020, MGT 1010		3
PPM 3010	Project Management	COM 1020		3
				<b>15</b>

Fall Year 3		Courses	Prerequisite(s)	Credit Hours	
CIS 4210	Database Administration I		CIS 2210	3	15
ELECTIVE	Program Elective		As needed per choice	3	
ITS 3050	Security Policies and Auditing		ITS 2110	3	
MGT 2310	Management Information Systems		COM 1020, MGT 1010	3	
SOC 3050	Personal, Civic, and Global Perspectives		COM 1010, MTH 1010, PSY 2050	3	
Spring Year 3		Courses	Prerequisite(s)	Credit Hours	
CIS 4310	Enterprise Architecture		CIS 3510	3	15
ELECTIVE	Program Elective		As needed per choice	3	
HUM 3910	Integrated Seminar		COM 1010, MTH 1010, PSY 2050, SOC 3050	3	
ITS 3250A	Hardening Systems		NET 1010	3	
ITS 3510	Ethical Hacking I		ITS 3050	3	
Fall Year 4		Courses	Prerequisite(s)	Credit Hours	
ELECTIVE	Program Elective		As needed per choice	3	15
ELECTIVE	Program Elective		As needed per choice	3	
CIS 2750	Securing Information Systems		NET 1010	3	
CIS 4410	IS Strategy, Management and Acquisition		CIS 4310	3	
ITS 4050	Internet and Web Security		ITS 3250A	3	
Spring Year 4		Courses	Prerequisite(s)	Credit Hours	
CIS 4950	Special Topics In Information Systems			3	15
CIS 4990A	Senior Project		CIS 4310	3	
ELECTIVE	Scientific Inquiry Elective			3	
ITS 4350	Disaster Recovery		ITS 3050	3	
WRK 4850	CoIT Work Experience		Senior status	3	
<b>Program Total</b>				<b>120</b>	

### Program Electives

Select any 5 courses, with any of the following prefixes, to fulfill 15 Program Electives hours: CIS, CS, CSC, GSD, ITS, MNP, NET, PPM, WEB. Prerequisites need to be fulfilled for any elective courses.