

INFORMATION ASSURANCE MAJOR

General Electives

General Electives	41
Total Credits Required	120

Cybersecurity, B.S.

The Information Assurance (IA) major provides students with the techniques and strategies utilized in protecting public and private critical digital infrastructure. The IA degree is the perfect combination of coursework in computer science, programming, and incident response, which positions graduates to make immediate contributions in securing and protecting our most valuable information assets. High-performing students will have the opportunity to enter a 4 + 1 program during their senior year. Additional student learning outcomes for the major in Information Assurance are:

- Demonstrate knowledge of the tools and techniques utilized to assure confidentiality, integrity, and availability of an organization's data assets.
- Recommend policy, practices, and procedures required to ensure accuracy, authenticity, utility, and possession of data, and recognizing the needs of the organization for access as well as security.
- Utilize critical thinking skills by demonstrating proficiency in the ability to research, understand, and communicate appropriate responses based on best practices, to test a variety of information assurance threats.

Degree requirements for the Information Assurance major are as follows:

Code	Title	Hours
<i>University Core</i>		
Behavioral/Social Science Electives		9
BUS 204	Financial Wellness	1
ENG 114	Critical Reading and Response	3
ENG 134	Literary Genres	3
Humanities Electives		9
MAT 120	Statistics	3
Science Electives (lab required)		7
WEL 100	Empowered as Learners and Leaders	3
or WEL 220	Empowered as Learners and Leaders	
WEL 350	Strategies for Career and Personal Growth	2
<i>Major Requirements</i>		
CBY 101	Introduction to Cybersecurity	3
CBY 202	Cyber Governance: Privacy, Ethics, and Digital Rights	3
CBY 301	Fundamentals of Information Assurance	3
CBY 315	Secure Software Engineering	3
CBY 335	Data Privacy	3
CBY 440	Cloud Computing	3
CBY 455	Cybersecurity Capstone	3
COM 111	Fundamentals of Computing Technology	3
CSC 101	Applied Computing	3
CSC 210	Computer Networks and Network Security	3
CSC 297	Programming Languages	3
CSC 405	Internet of Things and Artificial Intelligence Analysis	3
ENG 124	Research and Writing in the Disciplines	3