CYBERSECURITY
What can I do with this major?

The field of cybersecurity is continually changing. The areas listed below do not exhaust possible career options.

AREAS	EMPLOYERS	STRATEGIES
INFORMATION SECURITY Network security Data breaches or leak investigation Firewalls, intrusion detection systems, and intrusion prevention systems configuration Network and security infrastructure development Security architecture Security administration Security management	For-profit and nonprofit organizations Product and service organizations Manufacturers Financial companies Insurance companies Print and electronic media outlets Software and technology companies Internet companies Consulting firms Government agencies	Seek programming experience through volunteer positions, internships and co-ops. Develop attention to detail, logical thinking and communication skills. Exhibit patience and creativity for designing programs. Learn to work effectively independently on teams and with end-users while maintaining deadlines. Supplement degree with courses in business, science or engineering. Maintain current knowledge of programming languages; vendor and professional certifications may increase job prospects. Consider earning the certifications by completing a series of exams and experiential requirements. Earn a master's degree for upper level positions.
IT AUDITING & CONSULTING Network security Network security infrastructure Information security and processing Security testing Penetration testing Compliance Standardization	For-profit and nonprofit organizations Product and service organizations Manufacturers Financial companies Insurance companies Print and electronic media outlets Software and technology companies Internet companies Consulting firms Government agencies	Develop excellent interpersonal skills for effective communication with technical and non-technical colleagues and clients. Seek knowledge of industries, business areas or government agencies of interest. Complete a minor to gain specialized knowledge related to a field of interest. Strengthen logical thinking and problem solving skills. Maintain current knowledge of computer languages and technology. Gain programming experience and specialize for increased opportunities.

AREAS	EMPLOYERS	STRATEGIES

IT AUDITING & CONSULTING continued

		Obtain business experience through internships or part-time employment.
		Supplement program with courses such as accounting, management, human resources, consulting to increase understanding of business theory.
		Earn a graduate degree in technology or business for advanced opportunities in analysis, project management and executive operations.

THREAT INTELLIGENCE & DIGITAL FORENSICS

AREAS	EMPLOYERS	STRATEGIES
Network security	For-profit and nonprofit organizations	Develop excellent communication skills and an interest in helping customers solve problems.
Security plan development	Product and service organizations	Exhibit patience and a commitment to customer satisfaction.
Cyber threat hunting	Manufacturers	Obtain industry recognized certifications
Cyber-attack investigation	Financial companies	Supplement curriculum with technical writing courses to develop skills.
	Insurance companies	Explore labs and challenges that support opportunity to gain hands-on experience.
	Print and electronic media outlets	
	Software and technology companies	
	Internet companies	
	Consulting firms	
	Government agencies	

SOFTWARE DEVELOPMENT

AREAS	EMPLOYERS	STRATEGIES
Strategy	For-profit and nonprofit organizations	Start learning popular programming languages.
Design	Product and service organizations	Seek out internships to gain real world experience.
Testing	Manufacturers	Enroll in coursework related to programming and software development.
Implementation	Financial companies	Seek out certifications that are recognized by industry.
Front-end software design	Insurance companies	
	Print and electronic media outlets	
	Software and technology companies	
	Internet companies	
	Consulting firms	
	Government agencies	

GENERAL INFORMATION

Consider a dual major to help shape toward a particular career, since cybsecurity intersects with a number of other fields

    Examples: Biology for a career in bioinformatics; Political science/criminal justice for career in security and information policy; Fine arts for a career in animation; or, Business for some types of IT careers.

Develop strong interpersonal, communication and teamwork skills. Patience and perseverance are essential for cybersecurity professionals.

Complete informational interviews with current cyber security professionals to help establish career goals.

Obtain an internship, co-op or part-time job in a relevant area to increase employability. Related experience is essential to employers hiring cyber security majors.

Obtain vendor-specific or networking certifications to gain a competitive edge for some positions.

Obtain an area of specialization through a master's degree or by doing advanced coursework.

Expect to work extended and/or irregular hours at times and to be "on call."

Prepare to learn new information on a regular basis through online discussions, classes, conferences, periodicals, and update your skills accordingly.

It might be better to major in Business Administration and minor in cyber security if you want to work in the private sector because the cloud is transforming IT and creating hybrid roles across the enterprise.