

CYBERSECURITY - A.A.B.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

Launch your career in cybersecurity with Kent State's program. Gain the skills needed to protect against cyber threats and secure networks in today's digital world. Read more...

Contact Information

- Lead Faculty: **Shawn Golden** | dgolden@kent.edu
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
 - Fully online

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
IT 11004	SURVEY OF INFORMATION TECHNOLOGY	3
IT 11005	INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY	3
IT 11009	COMPUTER ASSEMBLY AND CONFIGURATION	4
IT 13000	APPLIED SECURITY ESSENTIALS	3
IT 21002	NETWORK SETUP AND CONFIGURATION	3
IT 21007	CYBER ETHICS IN INFORMATION TECHNOLOGY	3
IT 21110	NETWORK ROUTING AND SWITCHING	3
IT 21200	ETHICAL HACKING	3
IT 21300	INTRODUCTION TO SECURITY INCIDENT MANAGEMENT	3
IT 22000	SURVEY OF IT CYBERSECURITY	3

IT 23000	INTRODUCTION TO OPERATING SYSTEM SECURITY	3
IT 24000	DEVELOPING AND IMPLEMENTING SECURITY POLICIES	3
Additional Requirements (courses do not count in major GPA)		
UC 10001	FLASHES 101	1
Kent Core Composition		3
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		3
Kent Core Social Sciences		3
Kent Core Basic Sciences		3
Information Technology (IT) Electives		7
Minimum Total Credit Hours:		60

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
IT 11004	SURVEY OF INFORMATION TECHNOLOGY	3
IT 11005	INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY	3
UC 10001	FLASHES 101	1
Information Technology (IT) Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		
IT 11009	COMPUTER ASSEMBLY AND CONFIGURATION	4
IT 13000	APPLIED SECURITY ESSENTIALS	3
IT 21002	NETWORK SETUP AND CONFIGURATION	3
Kent Core Requirement		3
Credit Hours		13
Semester Three		
IT 21007	CYBER ETHICS IN INFORMATION TECHNOLOGY	3
IT 21110	NETWORK ROUTING AND SWITCHING	3
IT 21200	ETHICAL HACKING	3
IT 21300	INTRODUCTION TO SECURITY INCIDENT MANAGEMENT	3
Kent Core Requirement		3
Credit Hours		15
Semester Four		
IT 22000	SURVEY OF IT CYBERSECURITY	3
IT 23000	INTRODUCTION TO OPERATING SYSTEM SECURITY	3
IT 24000	DEVELOPING AND IMPLEMENTING SECURITY POLICIES	3
Information Technology (IT) Elective		4
Kent Core Requirement		3
Credit Hours		16
Minimum Total Credit Hours:		60

University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Flashes 101 (UC 10001)		1
	Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Kent Core (see table below)		15
Total Credit Hour Requirement		60
	Some associate degrees require students to complete more than 60 credit hours.	

Kent Core Requirements

Kent Core Composition (KCOMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
Total Credit Hours:	15

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate core competency in cybersecurity-related topics.
2. Describe the scope of the information security field and its impact on information technology.
3. Identify and analyze security risks to determine potential impacts.
4. Demonstrate ability to develop plans to mitigate security risks.
5. Identify professional, legal and ethical behavior.

Full Description

The Associate of Applied Business degree in Cybersecurity provides students with an applied approach to information security concepts. With an ever-growing threat to sensitive and critical data in the field of information technology, understanding the impact of security issues on businesses and individuals is critical. The degree program gives students the tools they need to address current security issues including risk identification, security testing and monitoring, and enterprise risk management. Because the degree is built upon a solid knowledgebase, additional topics include networking, hardware and operating systems, Cisco networking technologies, cyber defense methods, cyber ethics, incident management and security policies.