

CYBERSECURITY - A.A.B.

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

Contact Information

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- **Speak with an Advisor**
 - Ashtabula Campus
 - East Liverpool Campus
 - Geauga Campus
 - Salem Campus
 - Stark Campus
 - Trumbull Campus
 - Tuscarawas Campus
 - Twinsburg Academic Center
 - Online (any campus above)
- Chat with an Admissions Counselor

Fully Offered

- Online
- Hybrid On-Ground/Online
 - Ashtabula Campus
 - East Liverpool Campus
 - Geauga Campus
 - Salem Campus
 - Stark Campus
 - Trumbull Campus
 - Tuscarawas Campus
 - Twinsburg Center

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.

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.

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

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

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 |
|------|-------------------------------------------------------------------------------------------------------------------------------|--------------|
| | Destination Kent State: First Year Experience | 1 |
| | Course is not required for students with 25 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 (KCMP) | 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 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 | 4 |
| IT 21007 | CYBER ETHICS IN INFORMATION TECHNOLOGY | 3 |
| IT 21110 | INTRODUCTION TO ROUTING AND SWITCHING | 3 |
| IT 21200 | ETHICAL HACKING | 3 |

| | | | | | |
|--------------------------------------------------------------------|------------------------------------------------|----|--------------------------------------|-----------------------------------------------|----|
| IT 21300 | INTRODUCTION TO SECURITY INCIDENT MANAGEMENT | 3 | IT 24000 | DEVELOPING AND IMPLEMENTING SECURITY POLICIES | 3 |
| IT 22000 | SURVEY OF INFORMATION TECHNOLOGY CYBERSECURITY | 3 | Information Technology (IT) Elective | | 3 |
| IT 23000 | INTRODUCTION TO OPERATING SYSTEM SECURITY | 3 | Kent Core Requirement | | 3 |
| IT 24000 | DEVELOPING AND IMPLEMENTING SECURITY POLICIES | 3 | Credit Hours | | 15 |
| Additional Requirements (courses do not count in major GPA) | | | | | |
| UC 10097 | DESTINATION KENT STATE: FIRST YEAR EXPERIENCE | 1 | Minimum Total Credit Hours: | | 60 |
| 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 | | 6 | | | |
| 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 10097 | DESTINATION KENT STATE: FIRST YEAR EXPERIENCE | 1 |
| Information Technology (IT) Elective | | 3 |
| Kent Core Requirement | | 3 |
| Kent Core Requirement | | 3 |
| Credit Hours | | 16 |
| Semester Two | | Credits |
| IT 11009 | COMPUTER ASSEMBLY AND CONFIGURATION | 4 |
| IT 13000 | APPLIED SECURITY ESSENTIALS | 3 |
| IT 21002 | NETWORK SETUP AND CONFIGURATION | 4 |
| Kent Core Requirement | | 3 |
| Credit Hours | | 14 |
| Semester Three | | Credits |
| IT 21007 | CYBER ETHICS IN INFORMATION TECHNOLOGY | 3 |
| IT 21110 | INTRODUCTION TO 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 | | Credits |
| IT 22000 | SURVEY OF INFORMATION TECHNOLOGY CYBERSECURITY | 3 |
| IT 23000 | INTRODUCTION TO OPERATING SYSTEM SECURITY | 3 |