

INFORMATION TECHNOLOGY - A.A.B.

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

About This Program

Advance your career in IT with Kent State's A.A.B. in Information Technology. With a blend of technical and business skills, this program prepares you for a range of IT roles. From cybersecurity to software development, the Information Technology program has you covered. Enroll now and take the first step towards a rewarding career. Read more...

Contact Information

- Carolyn Carvalho | ccarvalh@kent.edu | 440-964-4222
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- Delivery:
 - Fully online

Examples of Possible Careers*

Computer user support specialists

- 8.0% much faster than the average
- 687,200 number of jobs
- \$52,690 potential earnings

Computer network support specialists

- 6.4% faster than the average
- 195,100 number of jobs
- \$65,450 potential earnings

Web developers and digital interface designers

- 8.0% much faster than the average
- 174,300 number of jobs
- \$77,200 potential earnings

Additional careers

- Database support technician
- IT support specialist

Concentration-specific careers

- **Application Development Technology**
 - Application support analyst
 - Junior software developer
- **Network Technology**
 - Network support specialist
 - Systems administrator
- **Web Development**

- Front-end developer
- Web content manager

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

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 11006	INTRODUCTION TO WEB SITE TECHNOLOGY	3
IT 11009	COMPUTER ASSEMBLY AND CONFIGURATION	3
IT 12000	INTERMEDIATE OFFICE PRODUCTIVITY APPS	3
IT 13000	APPLIED SECURITY ESSENTIALS	3
IT 15000	FUNDAMENTALS OF PROGRAMMING FOR INFORMATION TECHNOLOGY	3
IT 21002	NETWORK SETUP AND CONFIGURATION	3
IT 21003	SYSTEM ADMINISTRATION FOR INFORMATION TECHNOLOGY PROFESSIONALS	3
IT 21007	CYBER ETHICS IN INFORMATION TECHNOLOGY	3
IT 21009	SEMINAR IN INFORMATION TECHNOLOGY	3
IT 21010	WORKGROUP PRODUCTIVITY SOFTWARE	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
Concentrations		
Choose from the following:		9
Application Development Technology		
General Technology		

Network Technology	
Web Development	
Minimum Total Credit Hours:	61

Application Development Technology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
IT 20030	VISUAL AND OBJECT-ORIENTED PROGRAMMING IN INFORMATION TECHNOLOGY	3
IT 21006	DATABASE PROGRAMMING	3
IT 21036	WEB SCRIPTING I	3
Minimum Total Credit Hours:		9

General Technology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
Information Technology (IT) Electives		9
Minimum Total Credit Hours:		9

Network Technology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
Information Technology (IT) Elective		3
Concentration Electives, choose from the following:		6
IT 21100	LOCAL AREA NETWORK TROUBLESHOOTING	
IT 21110	NETWORK ROUTING AND SWITCHING	
IT 21200	ETHICAL HACKING	
Minimum Total Credit Hours:		9

Web Development Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
IT 21006	DATABASE PROGRAMMING	3
IT 21011	TECHNIQUES OF MULTIMEDIA WEB DESIGN	3
IT 21037	WEB SCRIPTING	3
Minimum Total Credit Hours:		9

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 program. Students will work with their advisor to develop a sequence based on their academic goals and history. 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

IT 11006	INTRODUCTION TO WEB SITE TECHNOLOGY	3
IT 12000	INTERMEDIATE OFFICE PRODUCTIVITY APPS	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3

Credit Hours 16

Semester Two

!	IT 11009 COMPUTER ASSEMBLY AND CONFIGURATION	3
	IT 13000 APPLIED SECURITY ESSENTIALS	3
	IT 15000 FUNDAMENTALS OF PROGRAMMING FOR INFORMATION TECHNOLOGY	3
	IT 21007 CYBER ETHICS IN INFORMATION TECHNOLOGY	3
Kent Core Requirement		3

Credit Hours 15

Semester Three

!	IT 21002 NETWORK SETUP AND CONFIGURATION	3
	IT 21003 SYSTEM ADMINISTRATION FOR INFORMATION TECHNOLOGY PROFESSIONALS	3
!	IT 21010 WORKGROUP PRODUCTIVITY SOFTWARE	3
Concentration Requirement		3
Kent Core Requirement		3

Credit Hours 15

Semester Four

!	IT 21009 SEMINAR IN INFORMATION TECHNOLOGY	3
Concentration Requirements		6
Kent Core Requirement		3
Kent Core Requirement		3

Credit Hours 15

Minimum Total Credit Hours: 61

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 (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 Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate core IT competency in networking and convergence; servers, storage and virtualization; client computing and user support; digital media and immersive technology; database and information management; and programming and application development.
2. Function effectively as a member of a diverse team to accomplish common goals.
3. Read and interpret technical information, as well as listen effectively to, communicate orally with, and write clearly for a wide range of audiences.
4. Engage in continuous learning as well as research and assess new ideas and information to provide the capabilities for lifelong learning.
5. Exhibit professional, legal and ethical behavior.
6. Demonstrate business awareness and workplace effectiveness.

Full Description

The Associate of Applied Business degree in Information Technology provides students with a core curriculum of programming, operating systems and networks, website development, hardware, security fundamentals, and workgroup productivity technologies.

The degree program articulates to the Bachelor of Science in Information Technology degree and the certificate in Computer Forensics and Information Security.

The Information Technology major comprises the following concentrations:

- The **Application Development Technology** concentration prepares students for various professional certifications and positions such as computer programmer/application developer using industry-standard languages and technologies.
- The **General Technology** concentration prepares students for various professional certifications and entry-level positions in which the computer staff are expected to perform a wide variety of technical duties.
- The **Network Technology** concentration prepares students for various professional certifications and positions in tech support and networking including the design, installation, and improvement of computer networks and related hardware/software.
- The **Web Development** concentration prepares students for various professional certifications and positions in web development, social media and digital media.