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

- Lead Faculty: **Shelley Marshall** | skmarsha@kent.edu
- 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

Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Ashtabula Campus
  - East Liverpool Campus
  - Geauga Campus
  - Salem Campus
  - Trumbull Campus
  - Tuscarawas Campus
  - Twinsburg Academic Center

Examples of Possible Careers

- Computer Operations Manager
- Database Manager
- E-commerce Network Administrator
- LAN Manager
- Manager of Internet/Intranet Technology
- Manager of Voice and Data Communications
- Network Administrator
- Technical Support Manager
- Web Architect/Developer

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 11002	VISUAL BASIC PROGRAMMING	3
or IT 13000	APPLIED SECURITY ESSENTIALS	
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	4
IT 21002	NETWORK SETUP AND CONFIGURATION	4
IT 21009	SEMINAR IN INFORMATION TECHNOLOGY	3
IT 21010	WORKGROUP PRODUCTIVITY SOFTWARE	3
Additional Requirements (courses do not count in major GPA)		
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
or OTEC 26638	BUSINESS COMMUNICATIONS	
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
or IT 21007	CYBER ETHICS IN INFORMATION TECHNOLOGY	
IT 12000	INTERMEDIATE OFFICE PRODUCTIVITY APPS	3
UC 10001	FLASHES 101	1
Business Elective, choose from the following:		3-4
ACTT 11000	ACCOUNTING I: FINANCIAL	
BMRT 11000	INTRODUCTION TO BUSINESS	
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	
OTEC 16625	BUSINESS PRESENTATIONS	
OTEC 26635	ADMINISTRATIVE RESOURCE MANAGEMENT	
OTEC 26640	CURRENT TECHNOLOGIES	
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:		9-10
Application Development Technology		
General Technology		

Internet/Multimedia Technology

Network Technology

	Minimum Total Credit Hours:	63-64

Application Development Technology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
IT 21005	VISUAL BASIC DATABASE PROGRAMMING	4
Concentration Electives, choose from the following:		6
IT 20001	C++ PROGRAMMING	
IT 20011	JAVA PROGRAMMING	
IT 20021	C# PROGRAMMING	
IT 21036	WEB SCRIPTING I	
Minimum Total Credit Hours:		**10**

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**

Internet/Multimedia Technology Concentration Requirements

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
IT 21007	CYBER ETHICS IN INFORMATION TECHNOLOGY	3
or IT 21036	WEB SCRIPTING I	
IT 21011	TECHNIQUES OF MULTIMEDIA WEB DESIGN	3
Information Technology (IT) Elective		3
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	INTRODUCTION TO ROUTING AND SWITCHING	
IT 21200	ETHICAL HACKING	
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 major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

		Semester One	Credits
	IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
	or IT 21007	or CYBER ETHICS IN INFORMATION TECHNOLOGY	
	IT 11002	VISUAL BASIC PROGRAMMING	3
	or IT 13000	or APPLIED SECURITY ESSENTIALS	
!	IT 11004	SURVEY OF INFORMATION TECHNOLOGY	3
!	IT 11005	INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY	3
	UC 10001	FLASHES 101	1
		Kent Core Requirement	3
		Credit Hours	**16**
		Semester Two	
	ENG 20002 or OTEC 26638	INTRODUCTION TO TECHNICAL WRITING or BUSINESS COMMUNICATIONS	3
!	IT 11006	INTRODUCTION TO WEB SITE TECHNOLOGY	3
!	IT 11009	COMPUTER ASSEMBLY AND CONFIGURATION	4
!	IT 12000	INTERMEDIATE OFFICE PRODUCTIVITY APPS	3
		Kent Core Requirement	3
		Credit Hours	**16**
		Semester Three	
!	IT 21002	NETWORK SETUP AND CONFIGURATION	4
!	IT 21010	WORKGROUP PRODUCTIVITY SOFTWARE	3
		Business Elective	3-4
		Concentration Requirement or Elective	3-4
		Kent Core Requirement	3
		Credit Hours	**16**
		Semester Four	
!	IT 21009	SEMINAR IN INFORMATION TECHNOLOGY	3
		Concentration Electives	6
		Kent Core Requirement	3
		Kent Core Requirement	3
		Credit Hours	**15**
		Minimum Total Credit Hours:	**63**

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 **Internet/Multimedia Technology** concentration prepares students for various professional certifications and positions in Web development, social media and digital media.
- 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.