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
  - Stark 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT 11002</td>
<td>VISUAL BASIC PROGRAMMING</td>
<td>3</td>
</tr>
<tr>
<td>or IT 13000</td>
<td>APPLIED SECURITY ESSENTIALS</td>
<td></td>
</tr>
<tr>
<td>IT 11004</td>
<td>SURVEY OF INFORMATION TECHNOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>IT 11005</td>
<td>INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>IT 11006</td>
<td>INTRODUCTION TO WEB SITE TECHNOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>IT 11009</td>
<td>COMPUTER ASSEMBLY AND CONFIGURATION</td>
<td>4</td>
</tr>
<tr>
<td>IT 21002</td>
<td>NETWORK SETUP AND CONFIGURATION</td>
<td>4</td>
</tr>
<tr>
<td>IT 21009</td>
<td>SEMINAR IN INFORMATION TECHNOLOGY</td>
<td>3</td>
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<tr>
<td>IT 21010</td>
<td>WORKGROUP PRODUCTIVITY SOFTWARE</td>
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</table>

Additional Requirements (courses do not count in major GPA)

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credit Hours</th>
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<tbody>
<tr>
<td>ENG 20002</td>
<td>INTRODUCTION TO TECHNICAL WRITING</td>
<td>3</td>
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<tr>
<td>or OTEC 26638</td>
<td>BUSINESS COMMUNICATIONS</td>
<td></td>
</tr>
<tr>
<td>IT 11000</td>
<td>INTRODUCTION TO OFFICE PRODUCTIVITY APPS</td>
<td>3</td>
</tr>
<tr>
<td>or IT 21007</td>
<td>CYBER ETHICS IN INFORMATION TECHNOLOGY</td>
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<tr>
<td>IT 12000</td>
<td>INTERMEDIATE OFFICE PRODUCTIVITY APPS</td>
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<tr>
<td>UC 10001</td>
<td>FLASHES 101</td>
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Business Elective, choose from the following: 3-4

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ACTT 11000</td>
<td>ACCOUNTING I: FINANCIAL</td>
<td></td>
</tr>
<tr>
<td>BMRT 11000</td>
<td>INTRODUCTION TO BUSINESS</td>
<td></td>
</tr>
<tr>
<td>BMRT 11009</td>
<td>INTRODUCTION TO MANAGEMENT TECHNOLOGY</td>
<td></td>
</tr>
<tr>
<td>OTEC 16625</td>
<td>BUSINESS PRESENTATIONS</td>
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</tr>
<tr>
<td>OTEC 26635</td>
<td>ADMINISTRATIVE RESOURCE MANAGEMENT</td>
<td></td>
</tr>
<tr>
<td>OTEC 26640</td>
<td>CURRENT TECHNOLOGIES</td>
<td></td>
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</table>

Concentrations
Choose from the following: 9-10
- Application Development Technology
- General Technology

Information Technology - A.A.B.
Application Development Technology Concentration Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>IT 21005</td>
<td>VISUAL BASIC DATABASE PROGRAMMING</td>
<td>4</td>
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</table>

Concentration Electives, choose from the following:

- 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

Concentration Requirements (courses count in major GPA)

Information Technology (IT) Electives

Minimum Total Credit Hours: 9

Internet/Multimedia Technology Concentration Requirements

Concentration Requirements (courses count in major GPA)

IT 21007: CYBER ETHICS IN INFORMATION TECHNOLOGY
or IT 21036: WEB SCRIPTING I
IT 21011: TECHNIQUES OF MULTIMEDIA WEB DESIGN

Information Technology (IT) Elective

Minimum Total Credit Hours: 9

Network Technology Concentration Requirements

Concentration Requirements (courses count in major GPA)

Information Technology (IT) Elective

Concentration Electives, choose from the following:

- 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: 2.000
Minimum Overall GPA: 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.

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.

<table>
<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>Flashes 101 (UC 10001)</td>
<td>Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.</td>
<td>1</td>
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</tbody>
</table>

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
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.