INFORMATION TECHNOLOGY - B.S.I.T.

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

About This Program
Join the fast-growing field of IT with Kent State's B.S.I.T. program. This program equips you with the skills needed to succeed in a range of IT roles, from software engineering to data analytics. With hands-on experience and expert faculty, you'll be well-prepared for a successful 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
  • Mostly online
• Location:
  • Ashtabula Campus
  • East Liverpool Campus
  • Geauga Campus
  • Salem Campus
  • Stark Campus
  • Trumbull Campus
  • Tuscarawas Campus
  • Twinsburg Academic Center

Examples of Possible Careers and Salaries*
Computer network support specialists
• 6.4% faster than the average
• 195,100 number of jobs
• $65,450 potential earnings

Computer user support specialists
• 8.0% much faster than the average
• 687,200 number of jobs
• $52,690 potential earnings

Computer and information systems managers
• 10.4% much faster than the average
• 461,000 number of jobs
• $151,150 potential earnings

Information security analysts
• 31.2% much faster than the average
• 131,000 number of jobs
• $103,590 potential earnings

Database administrators and architects
• 9.7% much faster than the average
• 132,500 number of jobs
• $98,860 potential earnings

Computer programmers
• -9.4% decline
• 213,900 number of jobs
• $89,190 potential earnings

Computer network support specialists
• 6.4% faster than the average
• 195,100 number of jobs
• $65,450 potential earnings

Software developers and software quality assurance analysts and testers
• 21.5% much faster than the average
• 1,469,200 number of jobs
• $110,140 potential earnings

Additional Careers
• Computer network systems administrators

* 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.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the
seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

**First-Year Students on the Regional Campuses:** First-year admission to Kent State’s campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

**International Students:** All international students must provide proof of English language proficiency unless they meet specific exceptions. For more information, visit the admissions website for international students.

**Transfer Students:** Students who have attended any other educational institution after graduating from high school must apply as undergraduate transfer students. For more information, visit the admissions website for transfer students.

**Former Students:** Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar’s website.

Admission policies for undergraduate students may be found in the University Catalog.

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.

### Program Requirements

#### Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>IT 11002</td>
<td>VISUAL BASIC PROGRAMMING</td>
<td>3</td>
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<tr>
<td>or IT 13000</td>
<td>APPLIED SECURITY ESSENTIALS</td>
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<td>IT 11004</td>
<td>SURVEY OF INFORMATION TECHNOLOGY</td>
<td>3</td>
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<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>
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<tr>
<td>IT 12000</td>
<td>INTERMEDIATE OFFICE PRODUCTIVITY APPS</td>
<td>3</td>
</tr>
<tr>
<td>IT 21002</td>
<td>NETWORK SETUP AND CONFIGURATION</td>
<td>4</td>
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<tr>
<td>IT 21007</td>
<td>CYBER ETHICS IN INFORMATION TECHNOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>IT 21009</td>
<td>SEMINAR IN INFORMATION TECHNOLOGY</td>
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<tr>
<td>IT 21010</td>
<td>WORKGROUP PRODUCTIVITY SOFTWARE</td>
<td>3</td>
</tr>
<tr>
<td>IT 36308</td>
<td>ERGONOMICS IN COMPUTER SYSTEMS</td>
<td>3</td>
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<tr>
<td>IT 36314</td>
<td>SEMINAR IN EMERGING COMPUTER AND INFORMATION TECHNOLOGIES</td>
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<tr>
<td>IT 36318</td>
<td>SURVEY OF INFORMATION SECURITY, INTERNET FRAUD AND COMPUTER FORENSICS (WIC) ¹</td>
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<tr>
<td>IT 36339</td>
<td>CLOUD AND VIRTUALIZATION TECHNOLOGIES IN INFORMATION TECHNOLOGY</td>
<td>3</td>
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<tr>
<td>IT 36340</td>
<td>HELP DESK SUPPORT</td>
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<tr>
<td>IT 42000</td>
<td>SOCIAL MEDIA SECURITY</td>
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<tr>
<td>TAS 37900</td>
<td>TECHNICAL AND APPLIED STUDIES CORNERSTONE</td>
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</table>

**Concentrations**

Minimum Total Credit Hours: 120

¹ Minimum C grade required to satisfy the writing-intensive requirement.

#### Application Development Concentration Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>IT 36301</td>
<td>ADVANCED C++ PROGRAMMING</td>
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<tr>
<td>or IT 3631</td>
<td>ADVANCED JAVA PROGRAMMING</td>
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<tr>
<td>IT 36302</td>
<td>ADVANCED C# PROGRAMMING</td>
<td>3</td>
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<tr>
<td>IT 36309</td>
<td>PROGRAMMING MOBILE APPLICATIONS</td>
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<tr>
<td>IT 36350</td>
<td>PROGRAMMING OFFICE PRODUCTIVITY APPLICATIONS</td>
<td>3</td>
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<tr>
<td>or IT 46309</td>
<td>ASPNET WEB PROGRAMMING</td>
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<tr>
<td>IT 46308</td>
<td>ADVANCED VISUAL BASIC PROGRAMMING</td>
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<tr>
<td>IT 46340</td>
<td>DATA DESIGN AND IMPLEMENTATION</td>
<td>3</td>
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Minimum Total Credit Hours: 19

#### Cloud and Virtualization Technologies Concentration Requirements

<table>
<thead>
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<th>Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>IT 36330</td>
<td>LOCAL AREA NETWORK SECURITY FUNDAMENTALS</td>
<td>3</td>
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<tr>
<td>IT 36355</td>
<td>COMMAND LINE UTILITIES</td>
<td>3</td>
</tr>
<tr>
<td>IT 41002</td>
<td>CLOUD TECHNOLOGY</td>
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</tr>
<tr>
<td>IT 46311</td>
<td>TECHNOLOGY OF NETWORKING</td>
<td>3</td>
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<tr>
<td>IT 46313</td>
<td>VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION</td>
<td>3</td>
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<tr>
<td>IT 46331</td>
<td>LOCAL AREA NETWORK SECURITY AND FIREWALLS</td>
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Minimum Total Credit Hours: 18
### Cybersecurity and Forensics Concentration Requirements

<table>
<thead>
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<tbody>
<tr>
<td>IT 21200</td>
<td>ETHICAL HACKING</td>
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<tr>
<td>or IT 46313</td>
<td>VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION</td>
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<tr>
<td>IT 36320</td>
<td>COMPUTER FORENSICS</td>
<td>3</td>
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<tr>
<td>IT 36321</td>
<td>NETWORK FORENSICS</td>
<td>3</td>
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<tr>
<td>IT 36330</td>
<td>LOCAL AREA NETWORK SECURITY FUNDAMENTALS</td>
<td>3</td>
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<tr>
<td>IT 46331</td>
<td>LOCAL AREA NETWORK SECURITY AND FIREWALLS</td>
<td>3</td>
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</tbody>
</table>

Concentration Elective, choose from the following:  

- IT 32002 LINUX NETWORKING  
- IT 36322 SOCIAL MEDIA AND MOBILE DEVICE FORENSICS  
- IT 40000 CYBERSECURITY  
- IT 42002 WIRELESS AND MOBILE DEVICE SECURITY  
- IT 46300 ADVANCED COMPUTER ASSEMBLY AND CONFIGURATION  
- IT 46313 VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION  
- IT 46320 CLOUD FORENSICS

Minimum Total Credit Hours: 18

### Database Design and Administration Concentration Requirements

<table>
<thead>
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<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>IT 21005</td>
<td>VISUAL BASIC DATABASE PROGRAMMING</td>
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<tr>
<td>IT 36350</td>
<td>PROGRAMMING OFFICE PRODUCTIVITY APPLICATIONS</td>
<td>3</td>
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<tr>
<td>IT 46315</td>
<td>SQL WITH ORACLE</td>
<td>3</td>
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<tr>
<td>IT 46340</td>
<td>DATABASE DESIGN AND IMPLEMENTATION</td>
<td>3</td>
</tr>
<tr>
<td>IT 46350</td>
<td>DATABASE ADMINISTRATION AND REPORTING TOOLS</td>
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Concentration Elective, choose from the following:  

- IT 36330 LOCAL AREA NETWORK SECURITY FUNDAMENTALS  
- IT 41010 MOBILE APPLICATIONS FOR INFORMATION TECHNOLOGY  
- IT 46303 DIGITAL VIDEO EDITING  
- IT 46311 ADVANCED JAVA PROGRAMMING  
- IT 46336 WEB SCRIPTING II  
- IT 46309 ASP.NET WEB PROGRAMMING  
- IT 46315 SQL WITH ORACLE  
- IT 46321 WEB DATABASE INTEGRATION

Minimum Total Credit Hours: 18

### Health Information Technology Concentration Requirements

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>IT 31002</td>
<td>HEALTH INFORMATION TECHNOLOGY</td>
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<td>IT 36330</td>
<td>LOCAL AREA NETWORK SECURITY FUNDAMENTALS</td>
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<tr>
<td>IT 41010</td>
<td>MOBILE APPLICATIONS FOR INFORMATION TECHNOLOGY</td>
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Concentration Elective, choose from the following:  

- IT 36330 LOCAL AREA NETWORK SECURITY FUNDAMENTALS  
- IT 43000 HEALTHCARE INFORMATION SYSTEMS  
- IT 43555 COMMAND LINE UTILITIES  
- or IT 46312 SCRIPTING FOR NETWORK ADMINISTRATORS  
- IT 41002 CLOUD TECHNOLOGY  
- or IT 46314 ADVANCED SERVER CONFIGURATION  
- IT 46300 ADVANCED COMPUTER ASSEMBLY AND CONFIGURATION  
- or IT 46313 VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION  
- IT 46310 TECHNOLOGY OF OPERATING SYSTEMS  
- or IT 46311 TECHNOLOGY OF NETWORKING

Concentration Elective, choose from the following:  

- IT 36330 LOCAL AREA NETWORK SECURITY FUNDAMENTALS  
- IT 43000 HEALTHCARE INFORMATION SYSTEMS  
- IT 43555 COMMAND LINE UTILITIES  
- or IT 46312 SCRIPTING FOR NETWORK ADMINISTRATORS  
- IT 41002 CLOUD TECHNOLOGY  
- or IT 46314 ADVANCED SERVER CONFIGURATION  
- IT 46300 ADVANCED COMPUTER ASSEMBLY AND CONFIGURATION  
- or IT 46313 VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION  
- IT 46310 TECHNOLOGY OF OPERATING SYSTEMS  
- or IT 46311 TECHNOLOGY OF NETWORKING

Minimum Total Credit Hours: 18

### Integrated Information Concentration Requirements

<table>
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<tr>
<td>IT 41010</td>
<td>MOBILE APPLICATIONS FOR INFORMATION TECHNOLOGY</td>
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Information Technology (IT) Electives  

Minimum Total Credit Hours: 18

### Internet/Multimedia Concentration Requirements

<table>
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<th>Credit Hours</th>
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<tr>
<td>IT 36303</td>
<td>DIGITAL IMAGE MANIPULATION</td>
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<tr>
<td>IT 36309</td>
<td>PROGRAMMING MOBILE APPLICATIONS</td>
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<tr>
<td>IT 36310</td>
<td>MULTIMEDIA DEVELOPMENT TOOLS</td>
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<tr>
<td>IT 46303</td>
<td>DIGITAL VIDEO EDITING</td>
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Concentration Electives, choose from the following:  

- IT 36311 ADVANCED JAVA PROGRAMMING  
- IT 46336 WEB SCRIPTING II  
- IT 46309 ASP.NET WEB PROGRAMMING  
- IT 46315 SQL WITH ORACLE  
- IT 46321 WEB DATABASE INTEGRATION

Minimum Total Credit Hours: 18

### Networking Concentration Requirements

<table>
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<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
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<td>IT 36330</td>
<td>LOCAL AREA NETWORK SECURITY FUNDAMENTALS</td>
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<tr>
<td>IT 36355</td>
<td>COMMAND LINE UTILITIES</td>
<td>3</td>
</tr>
<tr>
<td>or IT 46312</td>
<td>SCRIPTING FOR NETWORK ADMINISTRATORS</td>
<td></td>
</tr>
<tr>
<td>IT 41002</td>
<td>CLOUD TECHNOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>or IT 46314</td>
<td>ADVANCED SERVER CONFIGURATION</td>
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</tr>
<tr>
<td>IT 46300</td>
<td>ADVANCED COMPUTER ASSEMBLY AND CONFIGURATION</td>
<td>3</td>
</tr>
<tr>
<td>or IT 46313</td>
<td>VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION</td>
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</tr>
<tr>
<td>IT 46310</td>
<td>TECHNOLOGY OF OPERATING SYSTEMS</td>
<td>3</td>
</tr>
<tr>
<td>or IT 46311</td>
<td>TECHNOLOGY OF NETWORKING</td>
<td></td>
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</table>

Concentration Elective, choose from the following:  

- IT 36330 LOCAL AREA NETWORK SECURITY FUNDAMENTALS  
- IT 43000 HEALTHCARE INFORMATION SYSTEMS  
- IT 43555 COMMAND LINE UTILITIES  
- or IT 46312 SCRIPTING FOR NETWORK ADMINISTRATORS  
- IT 41002 CLOUD TECHNOLOGY  
- or IT 46314 ADVANCED SERVER CONFIGURATION  
- IT 46300 ADVANCED COMPUTER ASSEMBLY AND CONFIGURATION  
- or IT 46313 VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION  
- IT 46310 TECHNOLOGY OF OPERATING SYSTEMS  
- or IT 46311 TECHNOLOGY OF NETWORKING

Minimum Total Credit Hours: 18
IT 21100 LOCAL AREA NETWORK TROUBLESHOOTING
IT 21110 INTRODUCTION TO ROUTING AND SWITCHING
IT 32002 LINUX NETWORKING
IT 36315 CERTIFICATION PREPARATION IN INFORMATION TECHNOLOGY
IT 36331 ADVANCED ROUTING AND SWITCHING
IT 36355 COMMAND LINE UTILITIES
IT 41002 CLOUD TECHNOLOGY
IT 46300 ADVANCED COMPUTER ASSEMBLY AND CONFIGURATION
IT 46310 TECHNOLOGY OF OPERATING SYSTEMS
IT 46311 TECHNOLOGY OF NETWORKING
IT 46312 SCRIPTING FOR NETWORK ADMINISTRATORS
IT 46313 VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION
IT 46314 ADVANCED SERVER CONFIGURATION
IT 46318 SURVEY OF INFORMATION SECURITY, INTERNET FRAUD AND COMPUTER FORENSICS (WIC)
TAS 37900 TECHNICAL AND APPLIED STUDIES CORNERSTONE

Minimum Total Credit Hours: 18

Graduation Requirements
Minimum Major GPA 2.000
Minimum Overall GPA 2.000

Students may declare more than one concentration in the Information Technology major, provided that they complete minimum 12 credit hours of coursework unique to each concentration.

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
IT 11002 VISUAL BASIC PROGRAMMING
or IT 13000 or APPLIED SECURITY ESSENTIALS
IT 11004 SURVEY OF INFORMATION TECHNOLOGY
IT 11005 INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY
UC 10001 FLASHES 101
Kent Core Requirement
Kent Core Requirement

Credit Hours 16

Semester Two
IT 11006 INTRODUCTION TO WEB SITE TECHNOLOGY
IT 11009 INTERMEDIATE OFFICE PRODUCTIVITY APPS
IT 12000 COMPUTER ASSEMBLY AND CONFIGURATION
Kent Core Requirement
Kent Core Requirement

Credit Hours 16

Semester Three
IT 21002 NETWORK SETUP AND CONFIGURATION
IT 21010 WORKGROUP PRODUCTIVITY SOFTWARE
Kent Core Requirement
Kent Core Requirement
Kent Core Requirement

Credit Hours 16

Semester Four
IT 21007 CYBER ETHICS IN INFORMATION TECHNOLOGY
IT 21009 SEMINAR IN INFORMATION TECHNOLOGY
Kent Core Requirement
Kent Core Requirement
Kent Core Requirement

Credit Hours 15

Semester Five
IT 36308 ERGONOMICS IN COMPUTER SYSTEMS
IT 36318 SURVEY OF INFORMATION SECURITY, INTERNET FRAUD AND COMPUTER FORENSICS (WIC)
TAS 37900 TECHNICAL AND APPLIED STUDIES CORNERSTONE
Kent Core Requirement
Kent Core Requirement
Kent Core Requirement

Credit Hours 15

Semester Six
IT 36339 CLOUD AND VIRTUALIZATION TECHNOLOGIES IN INFORMATION TECHNOLOGY
Concentration Requirements 12-13

Credit Hours 15

Semester Seven
IT 36340 HELP DESK SUPPORT
IT 42000 SOCIAL MEDIA SECURITY
Concentration Requirement
General Electives

Credit Hours 15

Semester Eight
IT 36314 SEMINAR IN EMERGING COMPUTER AND INFORMATION TECHNOLOGIES
TAS 47999 TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR) (WIC)
Concentration Requirement
General Elective

Credit Hours 12

Minimum Total Credit Hours: 120

University Requirements
All students in a bachelor’s 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.

Flashes 101 (UC 10001) 1 credit

Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.

Diversity Domestic/Global (DIVD/DIVG) 2 courses

Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.

Experiential Learning Requirement (ELR) varies

Students must successfully complete one course or approved experience.

Kent Core (see table below) 36-37 credit hours

Students must earn a minimum C grade in the course.
The Information Technology major comprises the following concentrations:

- Manufacturing, healthcare, non-profit and government.
- Network or database administrator in all sectors of business, education, network or IT project manager; security or forensic analyst; and systems, technician or engineer; IT support specialist or consultant; help desk, as web or software developer; hardware, network, cloud, virtualization infrastructures in small- to large-sized enterprises in such positions.
- Graduates are qualified to work in a wide range of computer and network environments; write the web-based interfaces to pull the data; and render their tasks more efficiently on their desktop or mobile devices; of individuals and organizations; write programs necessary to help them apply knowledge, scripting, web, digital media, database, human computer interaction, networking, cloud, virtualization and security tools.
- Perform end-user support, including identifying and implementing solutions to user requests.
- Explain implementation, integration and maintenance for IT applications to a wide range of audiences.
- Work in diverse project teams to develop and/or implement IT-based solutions.
- Apply professional ethics in IT solutions.
- Engage in continuous learning, as well as research and assess new ideas and information to provide the capabilities for lifelong learning.

Full Description

The Bachelor of Science in Information Technology degree in Information Technology provides students with an applied approach that focuses on supporting end-users in a variety of workplace settings by utilizing a range of computing technologies. The degree program gives students the tools to support computing and network infrastructures and the needs of individuals and organizations; write programs necessary to help them render their tasks more efficiently on their desktop or mobile devices; utilize databases and write the web-based interfaces to pull the data; and code and deploy applications across the cloud.

Graduates are qualified to work in a wide range of computer and network infrastructures in small- to large-sized enterprises in such positions as web or software developer; hardware, network, cloud, virtualization technician or engineer; IT support specialist or consultant; help desk, network or IT project manager; security or forensic analyst; and systems, network or database administrator in all sectors of business, education, manufacturing, healthcare, non-profit and government.

The Information Technology major comprises the following concentrations:

- The Application Development concentration provides students with the ability to program in languages typically utilized in contemporary business environments. Students code in applications such as Visual Basic, C++, Java, C# and other industry-standard applications to develop programs employing event-driven and object-oriented techniques.
- The Cloud and Virtualization Technologies concentration gives students hands-on practice and competency in virtualization and cloud computing. In addition to gaining core IT skills, students focus on cloud technologies, virtual computer hardware platforms, networking, storage devices, security, scripting, emerging technologies, server administration and storage and infrastructure services. This concentration is for students who want to pursue a professional career in virtualization and cloud computing and prepare for industry-recognized certificates in the IT field.
- The Cybersecurity and Forensics concentration places an emphasis on security of computer and network systems, including forensic work to prevent and/or determine and correct security issues utilizing cybersecurity devices, procedures, tools and solutions.
- The Database Design and Administration concentration focuses on skills needed to become a database manager. Topics include relational database design; working with database servers, users and permissions; SQL statements used for queries and reports; and incorporating databases into programming used in web-based and desktop forms.
- The Health Information Technology concentration provides students with the tools to install, manage, troubleshoot and secure hardware and software systems in healthcare environments. The course of study includes health IT privacy, security, EHR Implementation and operations and regulatory requirements.
- The Integrated Information Technology concentration is ideal for students who want a flexible course of study for positions that require IT staff to perform a wide range of technical duties.
- The Internet/Multimedia concentration focuses on scripting, server-side form handling, web database integration, and interactive and dynamic multimedia Internet development.
- The Networking concentration focuses on configuring and maintaining network information systems and components in various network operating system and cloud computing environments that are prevalent in today's businesses. The emphasis is on network administration (i.e. managing Active Directory and network services), servers, workstations, virtualization, security, troubleshooting, installation and maintenance.