ABOUT THIS DEGREE PROGRAM

A FOUNDATION IN TECHNOLOGY
This program is anchored with Tech Core, curriculum designed to help you build a foundation of interdisciplinary skills you'll need for today's Internet of Things (IoT) economy. You'll learn relevant skills in operating systems, programming, hardware, connectivity and security – giving you a hands-on foundation in engineering technology, information technology and software and information systems.

A PROGRAM TO FUEL YOUR FUTURE
In addition to the Tech Core curriculum, other coursework along your educational journey will expose you to a variety of concepts that can help guide your specialization choice. There are seven specializations available: Computer Forensics, Cyber Security Programming, Database Management, Information Systems Security, Software Programming, Web Development and Administration, and Web Game Programming.

IS THIS PROGRAM FOR YOU?
Interested in a career in computer information systems but not sure where to focus? In this program, you'll be exposed to seven degree specializations in areas such as computer forensics and information security and be better equipped to choose your path.

CAREER OPPORTUNITIES
Graduates of DeVry's Computer Information Systems degree program may consider, but are not limited to, the following careers:
- Computer Programmer
- Computer Security Specialist
- Data Analyst
- Database Administrator
- Computer Support Specialist
- Data Scientist

WHAT YOU’LL LEARN

ESSENTIALS
- Communicate methods and findings
- Collaborate in dynamic work environments
- Solve complex problems
- Analyze numerical data
- Apply appropriate technologies

TECH CORE
- Produce, secure, operate and troubleshoot small enterprise networks
- Network, secure and deploy digital devices and sensors into the IoT ecosystem
- Solve technical problems using an algorithmic approach and basic programming and coding methods
- Install and configure operating systems using command line interface (CLI)

PROGRAM
- Use advanced programming techniques
- Develop applications
- Understand network types and designs
- Deploy cryptographic and hacking methodologies

QUICK FACTS

124 CREDIT HOURS
minimum credit hours required for graduation

2 + 8 YEARS MONTHS
minimum length to graduation

THE SMART WAY TO BE UNDECIDED
With our undecided model, you’ll be exposed to seven different specializations and be better armed to choose your path.

WORK WITH IOT TECHNOLOGIES & SYSTEMS
Immerse yourself in the Internet of Things (IoT) world and obtain hands-on experience with IoT, cloud, software and security technologies and systems.

CERTIFICATION EXAM REIMBURSEMENT
We reimburse qualified students up to $300 for the cost of one industry certification exam attempt across a wide range of fields.

BE AN ACTIVE PART OF AN INCLUSIVE FUTURE
Customize your curriculum by choosing Diversity, Equity and Inclusion (DE&I) course alternates for your Communication Skills, Humanities and Social Science courses. These options highlight relevant topics to help empower you to promote an inclusive workplace.

DIVERSITY, EQUITY & INCLUSION
BE AN ACTIVE PART OF AN INCLUSIVE FUTURE
Customize your curriculum by choosing Diversity, Equity and Inclusion (DE&I) course alternates for your Communication Skills, Humanities and Social Science courses. These options highlight relevant topics to help empower you to promote an inclusive workplace.

1 127 for students enrolled at a Pennsylvania location.
2 Not including breaks. Assumes year-round, full-time enrollment.
3 Must declare a specialization by 30 credit hours for associate degree program and 60 credit hours for bachelor's degree program.
## Bachelor's Degree Program | Tech - Software and Information Systems

### Computer Information Systems

#### ESSENTIALS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ENGL112</td>
<td>Composition</td>
<td>4</td>
</tr>
<tr>
<td>ENGL135</td>
<td>Advanced Composition</td>
<td>4</td>
</tr>
<tr>
<td>ENGL216</td>
<td>Technical Writing</td>
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**SOCIAL SCIENCES**

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<thead>
<tr>
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<tbody>
<tr>
<td>ECON312</td>
<td>Principles of Economics</td>
<td>3</td>
</tr>
<tr>
<td>SOCS185</td>
<td>Culture and Society</td>
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**HUMANITIES**

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<tbody>
<tr>
<td>LAS432</td>
<td>Technology, Society, and Culture</td>
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**MATHMATICS AND NATURAL SCIENCES**

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>MATH114</td>
<td>Algebra for College Students</td>
<td>3</td>
</tr>
<tr>
<td>MATH221</td>
<td>Statistics for Decision Making</td>
<td>3</td>
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<tr>
<td>PHYS204</td>
<td>Applied Physics with Lab</td>
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**PERSONAL AND PROFESSIONAL DEVELOPMENT**

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<td>CARD405</td>
<td>Critical Thinking and Problem Solving</td>
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**COMMUNICATION SKILLS**

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<tr>
<td>SPCH275</td>
<td>Public Speaking</td>
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<td>SPCH276</td>
<td>Intercultural Communication</td>
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**PROGRAM**

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<tr>
<td>CEIS150</td>
<td>Programming with Objects</td>
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<tr>
<td>CEIS209</td>
<td>Intermediate Programming</td>
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<tr>
<td>CEIS236</td>
<td>Database Systems and Programming</td>
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<tr>
<td>CEIS312</td>
<td>Introduction to Artificial Intelligence and Machine Learning</td>
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<td>CIS355A</td>
<td>Business Application Programming with Lab</td>
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**TECH CORE**

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<tr>
<td>CEIS106</td>
<td>Introduction to Operating Systems</td>
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<tr>
<td>CEIS110</td>
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<td>CEIS114</td>
<td>Introduction to Digital Devices</td>
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<tr>
<td>NETW191</td>
<td>Fundamentals of Information Technology and Networking</td>
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<td>NETW211</td>
<td>Fundamentals of Cloud Computing</td>
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<td>SEC285</td>
<td>Fundamentals of Information Security</td>
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**SPECIALIZED**

Students who have not chosen an area of specialization may begin the program in “Undecided” status; however, they must select a specialization by the time they have earned 60 semester credit hours toward their degree.

Available specializations are:

- Computer Forensics
- Cyber Security Programming
- Database Management
- Information Systems Security
- Software Programming
- Web Development and Administration
- Web Game Programming

### DEMONSTRATE SKILLS AT EVERY STEP

#### BACHELOR'S

<table>
<thead>
<tr>
<th>Degree Type</th>
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<tr>
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<tr>
<td>CERTIFICATE</td>
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<tr>
<td>BACHELOR</td>
<td>124</td>
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</tbody>
</table>

**EMBEDDED PROGRAMS**

Obtain two additional credentials with our unique 3-in-1 design. All of our courses in our Programming Essentials certificate and Information Technology and Networking associate degree are embedded within this program. Allowing you the opportunity earn a certificate and an associate degree on the way to your bachelor’s degree.