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
With this program, you’ll not only be armed with the Tech Core experience, but you’ll also be exposed to a variety of concepts that can help guide your specialization choice in Big Data and Analytics, Software Design and Programming, and Web and Mobile Application Development.

IS THIS PROGRAM FOR YOU?
Interested in a career in software development but not sure where to focus? With this program, you’ll become familiarized with methods for improving software design and application product development to help guide your degree specialization choice.

CAREER OPPORTUNITIES
Graduates of DeVry’s Software Development degree program may consider, but are not limited to, the following careers:
- Software Application Developer
- Software Systems Developer

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
- Design web distributed systems
- Develop applications
- Analyze and design software systems
- Product life cycle management

QUICK FACTS

120 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 three different specializations and be better armed to choose your path.¹

PORTABLE IoT KIT
You can simulate the Internet of Things (IoT) experience wherever you are. With our portable IoT Kit, you’ll get hands-on experience in how IoT technologies work in the real world. Your kit will include digital devices, sensors and other tools you will use to build relevant IoT 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.

¹Not including breaks. Assumes year-round, full-time enrollment. Additional program information may be found at https://www.devry.edu/degree-programs.html.
²Must declare a specialization by 60 credit hours for bachelor's degree program.
# Bachelor's Degree Program
## Software Development

### Essentials
**Communication Skills**
- ENGL112 Composition
- ENGL135 Advanced Composition
- ENGL216 Technical Writing
- SPC275 Public Speaking

**Humanities**
- ETHC232 Ethical and Legal Issues in the Professions
- LAS432 Technology, Society, and Culture

**Social Sciences**
- ECON312 Principles of Economics
- SOC185 Culture and Society
- SOC325 Environmental Sociology

**Mathematics and Natural Sciences**
- MATH114 Algebra for College Students
- MATH221 Statistics for Decision-Making
- MATH233 Discrete Mathematics
- PHYS204 Applied Physics with Lab

**Personal and Professional Development**
- CARD405 Career Development
- COLL148 Critical Thinking and Problem-Solving

### Tech Core
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>CEIS101</td>
<td>Introduction to Technology and Information Systems</td>
<td>38</td>
</tr>
<tr>
<td>CEIS106</td>
<td>Introduction to Operating Systems</td>
<td>21</td>
</tr>
<tr>
<td>CEIS110</td>
<td>Introduction to Programming</td>
<td></td>
</tr>
<tr>
<td>CEIS114</td>
<td>Introduction to Digital Devices</td>
<td></td>
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<tr>
<td>NETW190</td>
<td>Fundamentals of Information Technology and Networking I</td>
<td></td>
</tr>
<tr>
<td>NETW200</td>
<td>Fundamentals of Information Technology and Networking II</td>
<td></td>
</tr>
<tr>
<td>SEC285</td>
<td>Fundamentals of Information Security</td>
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</tbody>
</table>

### Program
#### Information Systems and Programming
- CEIS236 Database Systems and Programming Fundamentals
- CEIS312 Introduction to Artificial Intelligence and Machine Learning
- CIS170C Programming with Lab
- CIS247C Object-Oriented Programming with Lab

#### Application Development
- CEIS295 Data Structures and Algorithms
- CIS321 Structured Analysis and Design
- CIS339 Object-Oriented Analysis and Design
- CIS355A Business Application Programming with Lab
- WEB375 Web Architecture with Lab

#### Senior Project
- CEIS392 Product, Project, and People Management
- CEIS494 Senior Project I
- CEIS496 Senior Project II

#### Technology Career Preparation
- CEIS299 Careers and Technology
- CEIS499 Preparation for the Profession

### 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:
- Big Data and Analytics
- Software Design and Programming
- Web and Mobile Application Development

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In New York, DeVry University operates as DeVry College of New York. DeVry University is accredited by The Higher Learning Commission (HLC), [www.hlcommission.org](http://www.hlcommission.org). Keller Graduate School of Management is included in this accreditation. DeVry is certified to operate by the State Council of Higher Education for Virginia. Arlington Campus: 2450 Crystal Dr., Arlington, VA 22202. DeVry University is authorized for operation as a postsecondary educational institution by the [Tennessee Higher Education Commission](http://www.tn.gov/thec). Nashville Campus: 3343 Perimeter Hill Dr., Nashville, TN 37211. Programs, course requirements and availability vary by location. Some courses may be available online only. All students enrolled in site-based programs will be required to take some coursework online and, for some programs and locations, a substantial portion of the program may be required to be completed online. DeVry's academic catalog, available via devry.edu/catalogs, contains the most current and detailed program information, including admission, progression and graduation requirements. Information contained herein is effective as of date of publishing. ©2019 DeVry Educational Development Corp. All rights reserved. Version 1/13/20.