

	<p align="center"><i>Computer Programming Program Guide</i> CIP Code # 11.0201</p>
<p align="center">Standard Occupational Classifications</p>	<p align="center">2017 Pennsylvania High Priority Occupations</p>
<p>15-1131 Computer Programmer 15-1132 Computer Software Developers, Applications 15-1133 Computer Software Developers, System Software 15-1150 Computer Support Specialists 15-1121 Computer Systems Analysts 15-1061 Database Administrators</p>	<p>15-1121 Computer Systems Analyst³ 15-1131 Computer Programmers³ 15-1132 Software Developers, Applications³ 15-1133 Software Developers, Systems Software³ 15-1151 Computer Support Specialists³</p>
<p align="center">Industry Program Accreditation</p>	<p align="center">Student Certifications</p>
<p align="center">None at this time</p>	<p>ECTS Program Completer or Participant Pennsylvania Skills Certificate CareerSafe OSHA 10 Hour General Industry</p> <p><i>Certifications that can be earned after graduation, if student chooses to pursue them:</i></p> <p><i>Microsoft Office User Specialist Oracle Certification SAS Base Certification</i></p>

Key: ¹Statewide HPO ²Regional HPO ³Both Statewide and Regional HPO

For more information, go to: <http://online.onetcenter.org/find/family?f=17&g=Go>

Computer Programming Course Prerequisites

Expected Characteristics and Traits for Success

- Good attendance
- Self starter
- Punctual
- Dependable, honest, and ethical
- Willingness to learn
- Able to sit and work in one place for long periods of time
- Able to follow both written and oral instructions
- Able to accept constructive criticism
- Able to listen
- Able to follow safety rules within the lab area
- Respectful attitude for authority in both the class-room and out on the CO-OP site
- Pre-algebra mathematical skills
- Good problem solving and analytical skills
- Able to communicate your thoughts and ideas effectively
- Able to visualize abstract ideas
- Able to apply fractional, decimal and metric conversions
- Able to use and apply formulas to calculate percentages, averages, means, standards deviations, ratios and proportions
- Able to create mental images to solve both simple and complex programming problems
- Cooperates with fellow students in team programming assignments and projects

All supplies needed by students are provided by ECTS.