Associate in Applied Science Degree
COMPUTER TECHNOLOGY - PROGRAMMING

Programming
With the widespread use of computers around the world, there is an ongoing need for skilled computer specialists. The associate degree in Computer Technology - Programming Emphasis prepares students for entry-level positions in a vast number of industries. After completing a year in general computer courses, students choose an emphasis in Programming or Networking. The Programming emphasis provides skills in a variety of programming languages, such as Visual Basic, Java, PHP, HTML, Mobile Apps, and SQL. Graduates will be equipped to find employment as business-application programmers, database managers, and system analysts. They can also plan, design, and develop programming applications, as well as create and host web applications. These valuable skills enable graduates to work in IT for small businesses, public and private corporations, and in private practice.

PROGRAM INFORMATION
Course Sequence and Progression Requirements
A minimum grade of "C" or better is required for all CPT and IST-prefixed courses for progression and graduation.

CURRICULUM SEQUENCE
First Semester - Fall
CPT 168 Programming Logic and Design 3
CPT 209 Computer Systems Management 3
CPT 278 Computer Software Applications 3
MAT 101 Beginning Algebra* 3
TOTAL 12
Second Semester - Spring
CPT 187 Object-Oriented Logic and Design 3
ENG 101 English Communications I 3
IST 190 LINUX Essentials 3
PHI 103 Workplace Ethics 3
SPC 205 Public Speaking 3
TOTAL 15
Third Semester - Summer
CPT 236 Introduction to Java Programming 3
IST 192 LINUX Network Applications 3
IST 226 Internet Programming 3
Elective (Choose one)** 3
TOTAL 12
Fourth Semester - Fall
CPT 162 Intro. to Web Page Publishing 3
CPT 242 Database 3
GMT 101 Intro to Geographic Info Systems 3
IST 271 Object-Oriented Technologies 3
ENG 102 English Communications II 3
TOTAL 15
Fifth Semester - Spring
PSY 103 Human Relations* 3
CPT 240 Internet Programming with Databases 3
CPT 262 Advanced Web Page Publishing 3
(Continued)
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPT 264</td>
<td>Systems and Procedures</td>
<td>3</td>
</tr>
<tr>
<td>IST 236</td>
<td>Mobile and Wireless Appliances</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**TOTAL CREDIT HOURS** 69

*Students interested in the Transfer University Parallel Programs should substitute the following courses: MAT 110 College Algebra for MAT 101 Beginning Algebra; PSY 201 General Psychology for PSY 103 Human Relations; ENG 101 English Composition I; ENG 102 English Composition II; SPC 205 Public Speaking for ENG 155 Communications I and ENG 160 Technical Communications.

**Third semester elective: CPT 164 or CPT 280**

***Fifth semester electives: CPT 237, CPT 280 or IST 236***