### Program of Study

**Career Field:** Communication and Information Systems  
**Career Cluster:** Information Technology  
**Career Pathway:** Programming and Software Development

#### Southeast Community College

**DEGREE:** Computer Programming Technology  
[http://www.southeast.edu/programs/CompPro/default.aspx](http://www.southeast.edu/programs/CompPro/default.aspx)

<table>
<thead>
<tr>
<th>GRADE</th>
<th>ENGLISH</th>
<th>MATH</th>
<th>SCIENCE</th>
<th>SOCIAL STUDIES</th>
<th>GENERAL ELECTIVES</th>
<th>PATHWAY ELECTIVE COURSES</th>
<th>EXTENDED LEARNING SCHOOL/COMMUNITY ACTIVITIES</th>
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</thead>
</table>
| 9     | English/Language Arts I | Algebra I            | Physical Science      | Geography     | World Languages & Cultures  
Physical Education  
Health Education  
Entrepreneurship  
Digital Media  
Information Technology Fundamentals  
Network Systems | Information Technology App. I  
Information Technology App. II  
Programming I  
Plus one from the following:  
Programming II  
Programming III  
Database Design & Development  
Web Design & Development | School Activities:  
Develop web pages, FBLA, Prepare school multimedia, SkillsUSA, Student Technology Aide  
Community Activities:  
Create a community web site, Volunteer in the community, Set up computers and install software, Job shadow professionals, Part-time employment within career cluster |
| 10    | English/Language Arts II | Geometry             | Biology               | World History | World Languages & Cultures  
Physical Education  
Health Education  
Entrepreneurship  
Digital Media  
Information Technology Fundamentals  
Network Systems | Information Technology App. I  
Information Technology App. II  
Programming I  
Plus one from the following:  
Programming II  
Programming III  
Database Design & Development  
Web Design & Development |  |
| 11    | English/Language Arts III | Algebra II           | Chemistry             | American History | World Languages & Cultures  
Physical Education  
Health Education  
Entrepreneurship  
Digital Media  
Information Technology Fundamentals  
Network Systems | Information Technology App. I  
Information Technology App. II  
Programming I  
Plus one from the following:  
Programming II  
Programming III  
Database Design & Development  
Web Design & Development |  |
| 12    | English/Language Arts IV | Intro to Statistics  
Descrete Math  
Pre-Calc | Physics or other science source | American History  
Government or Economics | World Languages & Cultures  
Physical Education  
Health Education  
Entrepreneurship  
Digital Media  
Information Technology Fundamentals  
Network Systems | Information Technology App. I  
Information Technology App. II  
Programming I  
Plus one from the following:  
Programming II  
Programming III  
Database Design & Development  
Web Design & Development | School Activities:  
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Community Activities:  
Create a community web site, Volunteer in the community, Set up computers and install software, Job shadow professionals, Part-time employment within career cluster |

#### SOUTHEAST COMMUNITY COLLEGE

<table>
<thead>
<tr>
<th>COMMUNICATIONS</th>
<th>MATH/SCIENCE</th>
<th>SOCIAL SCI/ HUMANITIES</th>
<th>DEGREE REQUIREMENTS</th>
<th>CORE COURSES</th>
<th>FOCUS COURSES</th>
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</table>
| 13 and 14      | Public Speaking | Business Mathematics | Personal Finance | Logic and Design | Microsoft Windows and Office Suite  
Computer Fundamentals  
Database Management | Operating Systems  
Web Page Fundamentals |
|                |              |                        |                     | Java  
Internet Scripting  
Introduction to IBMi  
Advanced Java | COBOL  
System Analysis & Design | Visual Basic |
|                |              |                        |                     | RPG IV  
Java Server Programming  
Advanced COBOL | Customer Info Control System Programming |  |
|                |              |                        |                     | Networking Concepts  
Applied Business Solutions  
Advanced Visual Basic | DB2 Database Applications & SQL | Career Development |

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6/17/2010