

**PROGRAMMING OPTION – N056**  
**A.S. in Computer Information Systems**

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E-Institute: <http://webtide.hccdl.org> Courses in red are not available online.

Computer programmers write, test, and maintain the detailed instructions that computers use to function. Programmers also design and test logical structures for solving problems by computer. Programmers work directly with experts from various fields to create software. Students in this option generally transfer to a baccalaureate degree program in order to obtain an entry-level career position. Opportunities may also include system analysis, database management and programming, and positions within management information systems departments.

Term/Grade	Course Number	Course Name	Course Credits
<b>GENERAL EDUCATION REQUIREMENTS</b>			<b>20</b>
_____	ENG 101	Language and Literature I	3
_____	ENG 102	Language and Literature II	3
_____	_____	Social Science Elective (B) <sup>1</sup> _____	3
_____	_____	Social Science Elective (B) <sup>1</sup> _____	3
_____	_____	Laboratory Science (D) _____	4
_____	_____	Laboratory Science (D) _____	4
<b>PROGRAM REQUIREMENTS</b>			<b>36-37</b>
_____	ACC 111	Principles of Accounting I	4
_____	CSI 106	Programming Fundamentals I	4
_____	CSI 111	Computer Concepts with Applications	4
_____	CSI 218	Programming Fundamentals II	4
_____	CSI 242	Applied Database Management	3
_____	CSI 250	Current Topics in Microcomputing	3
_____	CSI 252	Introduction to Website Development	3
_____	CSI 254	Java Programming I	4
_____	CSI 256	Java Programming II	4
_____	_____	Math Elective (D) <sup>2</sup> _____	3-4
<b>PROGRAM ELECTIVES</b>			<b>9-11</b>
_____	_____	General Elective _____	3
_____	_____	Programming Electives <sup>3</sup> _____	3-4
_____	_____	Programming Electives <sup>3</sup> _____	3-4
<b>Total Credits</b>			<b>64-67</b>

**NOTES:**

<sup>1</sup> Recommend ECN 101-102

<sup>2</sup> Select from MTH 104, 108, 111, 142, 150, 160, 162.

<sup>3</sup> Programming Electives include: CSI 120, 215, 225, 235, 253, 255, 278, 280, ENG 223, 225, GIS 230 SEC 105, 261, 262, 263, 264, 266, 267, 268.