

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

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E-Institute: <http://webtide.hccd1.org>

**Courses in red are not available online.**

Computer programming has developed in recent years to span the global explosion in the technology field. Programmers now work in a diverse world of opportunities including business system development, game and web programming; this option exposes the student to all these fields. Critical thinking and theory are the focus of much of the program, rather than a specific technology, to allow students to adapt to a variety of tools in the ever-changing world of technology. Career opportunities include system analysis, database management and programming. Students in this option generally transfer to a baccalaureate degree program.

<b>Term/Grade</b>	<b>Course Number</b>	<b>Course Name</b>	<b>Course Credits</b>
<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>48-49</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
_____	_____	Humanities Elective (C) _____	3
_____	_____	Humanities Elective (C) _____	3
_____	_____	Humanities Elective (C) _____	3
_____	_____	Social Science Electvie (B) _____	3
<b>Total Credits</b>			<b>63-65</b>

**NOTES:**

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

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