

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

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COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
<b>GENERAL EDUCATION REQUIREMENTS</b>			<b>20</b>		
Language and Literature I	ENG 101	Appropriate score on Placement Tests, or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099	3		
Language and Literature II	ENG 102	ENG 101	3		
Social Science Elective (B) <sup>1</sup>			3		
Social Science Elective (B) <sup>1</sup>			3		
Laboratory Science (D)			4		
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<b>PROGRAM REQUIREMENTS</b>			<b>48-49</b>		
Principles of Accounting I	ACC 111	Eligibility for MTH 085	4		
Programming Fundamentals I	CSI 106	Eligibility for ENG 101 and MTH 095; CSI 111 previously or concurrently	4		
Computer Concepts with Applications	CSI 111	Eligibility for ENG 101	4		
Programming Fundamentals II	CSI 218	CSI 106, 115, or permission of instructor; and CSI 111, and MTH 095 or Mathematics Placement Exam.	4		
Applied Database Management	CSI 242	Introductory Computer Course (CSI 111, BUS 115, BUS 215, or equivalent)	3		
Current Topics in Microcomputing	CSI 250	12 CSI credits	3		
Introduction to Website Development	CSI 252	CSI 111, eligibility for MTH 095	3		
Java Programming I	CSI 254	CSI 106 and CSI 111	4		
Java Programming II	CSI 256		4		
Math Elective <sup>2</sup>			3-4		
Humanities Elective			3		
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Social Science Elective			3		
<b>Total Credits</b>			<b>68-69</b>		

**PROGRAM OVERVIEW**  
 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.

NOTES:

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

<sup>2</sup> Select from MTH 104, MTH 107, MTH 108, MTH 111, MTH 113, MTH 125, MTH 142, MTH 150, MTH 155, MTH 160, MTH 162, MTH 172.

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

Depending on the course selection 50% of this program can be completed online. Go to <http://webtide.hccdl.org> for further information.