

## COMPUTER INFORMATION SYSTEMS

### Software Development Certificate

*This 23 credit-hour certificate program is designed to prepare students for business software development. The student will be prepared for an entry-level software development position.*

*F = Fall only course S = Spring only course U = Summer only course*

#### Required:

Number	Course Title	Credits
CAS 160	Introduction to Business Software Packages .....	3
CIS 101	Introduction to Computer Information Systems .....	3
CIS 106	Computer Logic and Programming Technology <sup>1</sup> .....	3
CIS 143	Introduction to Database Systems <sup>2</sup> .....	3
CIS 206	Applied Programming <b>(S)</b> and	
CIS 216	Applied Object-Oriented Programming <b>(F)</b> or	
CSC 121	Computer Science I <sup>3</sup> and	
CSC 122	Computer Science II <sup>4</sup> .....	8
WEB 110	Internet Fundamentals or	
WEB 150	Web Foundations .....	3

- 1 Students should have a strong mathematics background prior to enrollment in software development courses. The prerequisite for CIS 106 is placement into MTH 101 or higher; MTH 103 or higher is recommended.
- 2 The prerequisites for CIS 143 are CAS 160 or CIS 101 or WEB 110 with a grade of C or better, and placement into MTH 101 or higher.
- 3 Students completing CIS 106 and (MTH 103 with a grade of C or better, or placement into MTH 140 or higher) and consent of CSC department chair will be accepted into CSC 121.
- 4 Please contact the CSC department chair for information and prerequisite approval.