

Java and Web Programming Certificate of Achievement

COMPUTER SCIENCE DEPARTMENT

Certificate of Achievement

Why complete the certificate of achievement in Java & Web Programming?

This certificate of achievement provides students with an awareness of the internet and the world wide web. Publishing text, pictures, sound, and even video over the internet is becoming easier every day. Individuals who run small businesses with services to sell, and people with stories to share will acquire the necessary skills to publish useful, attractive, and quality web pages. Upon completion of this certificate program, students will be able to create web sites and useful web pages.

Are there any requirements that must be satisfied before students can take courses in the major?

The certificate of achievement is designed for those students with at least two years of college level education, including ENG 121 English Composition I. Algebra I is a prerequisite for all majors. Algebra I competency may be verified with a passing score on the College's placement test or completion of the appropriate course. Students must have completed CSC 105 or CSC 107 or MCT 101 or demonstrated equivalent proficiency before beginning this certificate.

How long will it take to complete this certificate?

Once students complete developmental coursework (if needed), the certificate may be completed in 1-2 semesters. They can shorten the amount of time by taking courses in the summer and winter sessions.

Why take the certificate of achievement in Information Systems Security?

This certificate of achievement develops technical competence in Information Systems Security, an area that is critical to homeland security with rapidly expanding employment opportunities.

Questions?

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**JAVA AND WEB PROGRAMMING
CERTIFICATE OF ACHIEVEMENT - CSWEB.COA**

This Java and Web Programming Certificate of Achievement is designed for those students with at least two years of college education and knowledge of **CSC 161 Introduction to Computer Science In Java and CSC 200 Networking Technologies** using Java or permissions of the chairperson.

<u>Courses</u>	<u>Credits</u>	<u>Requisites/Comments</u>
CSC 125 Web Markup Languages	3	Prerequisite(s): CSC 133 or CSC 161 and MAT 014
CSC 239 Database System Concepts	3	Prerequisite(s): CSC 133 or CSC 161
CSC 241 Web Programming	4	Prerequisite(s): CSC 134 or CSC 162
CSC 245 UNIX and Shell Programming	4	Prerequisite(s): CSC 133 or CSC 161
CSC 162 Object Orienting Program In Java	4	Prerequisite(s): CSC 161 and MAT 129 or MAT 129A

Total Credits: 18

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**JAVA PROGRAMMING
CERTIFICATE OF ACHIEVEMENT - CSJAVA.CO.A.**

This Certificate of Achievement is designed for those students with at least two years of college education and who have completed courses equivalent to ENG 121 and MAT 129. Successful completion of this certificate prepares students to take entry level jobs as Java programmers.

<u>Courses</u>	<u>Credits</u>	<u>Requisites/Comments</u>
CSC 161 Introduction to Computer Science in Java	4	MAT 014 or appropriate score on College's placement test. Corequisite(s): MAT 129 or MAT 129A or higher
CSC 162 Object Oriented Programming in Java	4	Prerequisite(s): CSC 161 and MAT 129 or MAT 129A or higher
CSC ____ 200-Level Programming Elective <i>Approved Programming Elective List (4 credits each):</i>	4	
CSC 211 Programming in Java		Prerequisite(s): CSC 134 or 162
CSC 236 Data Structures in Java		Prerequisite(s): CSC 162 and MAT 129 or MAT 129B or written permission of the Department
CSC 241 Web Programming		Prerequisite(s): CSC 134 or 162
CSC 245 UNIX and Shell Programming	4	CSC 133 or CSC 161

Total Credits: 16

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**INFORMATION SYSTEMS SECURITY
CERTIFICATE OF ACHIEVEMENT - CSS.COA**

The Information Systems Security Certificate of Achievement is designed for those students with at least two years of college level education who have completed courses equivalent to ENG 121 and MAT 014. Students must complete CSC 105, CSC 134 or CSC 162, and CSC 200 or demonstrate equivalent knowledge prior to beginning the program. Successful completion of this certificate helps prepare students to take the certification test for Information Systems Security.

<u>Courses</u>	<u>Credits</u>	<u>Requisites/Comments</u>
CSC 116 Introduction to Information Systems Security	3	CSC 105 or CSC 106
CSC 239 Database Concepts	3	CSC 133 or CSC 161
CSC 245 UNIX and Shell Programming	4	CSC 133 or CSC 161
CSC 258 Computer Forensics	3	CSC 116 and CSC 245
____ System Administration Technical Elective (3 credits each):	3	All students should consult a Computer Science Advisor.
CSC 246 UNIX and Web Server Administration		CSC 245
CSC 251 Windows Workstation Administration		CSC 200
CSC 252 Windows Server Administration		CSC 251
CSC 261 Information Technology Management	3	CSC 133 or CSC 161 and CSC 200 and ENG 121

Total Credits: 19

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WINDOWS/PC SUPPORT CERTIFICATE OF ACHIEVEMENT - CSNT.COA

This Windows/PC Support Certificate of Achievement is designed for students who have completed courses equivalent to ENG121 and MAT 014. Students must complete CSC105 or demonstrate the equivalent proficiency prior to beginning this certificate program.

Successful completion of this certificate helps prepare students to take the certification tests for Microsoft Windows (MCP) and A+ Certification.

<u>Courses</u>	<u>Credits</u>	<u>Requisites/Comments</u>
CSC 110 Microcomputer Operating Systems and Architecture	3	CSC 105 or CSC 106
CSC 116 Introduction to Information Systems Security	3	CSC 105 or CSC 106
CSC 200 Networking Technologies	3	CSC 110
CSC 251 Windows Workstation Administration	3	Prerequisite(s): CSC 110 Corequisite(s): CSC 200
CSC 252 Windows Server Administration	3	CSC 251
CSC 248 PC Service and Support	3	CSC 110 and CSC 200
____ Elective Required	3-4	
<i>Recommended Electives:</i>		
CSC 160 Introduction to UNIX for Web Development	3	MAT 014 or higher and CSC 133 or CSC 161 or permission of chairperson.
CSC 245 UNIX and Shell Programming	4	CSC 133 or CSC 161

Total Credits: 21

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