

Computer Science - Cyber/Information Security (Certificate)

Certificate of Mastery

Minimum of 36 Credits

This program is designed for students who wish to acquire skills necessary for employment in the cyber/information security industry. The curriculum is designed to provide education in general security concepts, communications security, infrastructure security, basics of cryptography, and operational/organizational security. It can be used as the first step for an Associate in Applied Science: Cyber/Information Security.

The industry need for cyber/information security training and education is clear. Daily we see news reports regarding the growing cyber threats, like denial of service, viruses/worms, hacking, electronic fraud, etc. This program is intended for all students who desire a career in the support of cyber/information security. The certificate satisfies all major prerequisite requirements for continuing into more advanced programs in Cyber/Information Security (see Associate in Applied Science: Cyber/Information Security).

Oklahoma City Community College has been granted the authority to award the NSTISSI/CNSS 4011. Please contact Al Heitkamper for specific information at aheitkamper@occc.edu or 682.1611 ext. 7494.

Course ID	Course Name	Credits	Type	Prerequisites
Suggested Freshman 1st Semester				
CS 1143	(C) BEGINNING PROGRAMMING	3	MAJOR	(R) (W) (M) OR EVALUATION BY INSTRUCTOR
CS 1153	(C) INTRODUCTION TO COMPUTING TECHNOLOGIES	3	MAJOR	(R) (M)
CS 2713	(C) PRINCIPLES OF INFORMATION SECURITY	3	MAJOR	(R) (W) (M)
CS 2723	(C) SECURE ELECTRONIC COMMERCE	3	MAJOR	(R) (W) (M)
Freshman 2nd Semester				
CS 1353	(C)(2)(4) INTRODUCTION TO OPERATING SYSTEMS AND HARDWARE	3	MAJOR	(R) (W) (M), CS 1103
CS 2183	(C) LINUX	3	MAJOR	(R) CS 1143 OR EVALUATION BY INSTRUCTOR
CS 1333	(C) DATABASE MANAGEMENT APPLICATIONS —OR—		MAJOR	(R)
CS 2173	(C) ORACLE —OR—		MAJOR	(R) (W) (M), CS 1143 OR EVALUATION BY INSTRUCTOR
CS 2443	(C) SQL SERVER	3	MAJOR	(R) (W) (M), CS 1143 OR EVALUATION BY INSTRUCTOR
CS 2303	(C)(3)(4) NETWORKING TECHNOLOGIES —OR—		MAJOR	(R), CS 1353 OR EVALUATION BY INSTRUCTOR
CS 2503	(C)(4) NETWORK ADMINISTRATION	3	MAJOR	(R) (W) (M), CS 1353 OR EVALUATION BY INSTRUCTOR
CS 2743	(C) ENTERPRISE SECURITY MANAGEMENT	3	MAJOR	(R) (W) (M)
Sophomore 1st Semester				
CS 2763	(C) NETWORK SECURITY	3	MAJOR	(R) (W) (M), CS 2713 AND CS 2303 OR CS 2503
CS 2783	(C) CYBER FORENSICS	3	MAJOR	(R) (W) (M) AND EVALUATION BY INSTRUCTOR

Major Courses: (36 credit hours) Computer Science: (C)CS 1143; (C)CS 1153; (C)CS 1333 or (C)CS 2173 or (C)CS 2443; (C)(2)CS 1353; (C)CS 2163; (C)(3)(4)CS 2303 or (C)(4)CS 2503; (C)CS 2183; (C)CS 2703 or (C)CS 2713; (C)CS 2723; (C)CS 2743; (C)CS 2763; (C)CS 2783

General Education Courses: None

Life Skills Courses: None

Support Courses: None

Notes: A Certificate of Mastery program is designed to meet the needs of an individual who wants to enter the job market following the completion of the certificate.

(C) A grade of "C" or higher must be achieved.

(2) A+ Certification Preparation Course

(3) Preparatory courses for MCP certification through Microsoft that can apply toward MCSA

(4) Network+ Certification Preparation Course