

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, 4012 and 4013 certificates. Please contact Al Heitkamper for specific information at aheitkamper@occc.edu or 682.1611 ext. 7494.

Course #	Course Name	Credits	Type	Prerequisites
Suggested Freshman 1st Semester				
CS 1103	(C)(1) INTRODUCTION TO COMPUTERS AND APPLICATIONS	3	Major	(R)
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)
Suggested Freshman 2nd Semester				
CS 1353	(C)(2) 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)(3) NETWORK ADMINISTRATION	3	Major	(R) (W) (M), CS 1353 or Evaluation by Instructor
CS 2743	(C) ENTERPRISE SECURITY MANAGEMENT	3	Major	(R) (W) (M)
Suggested 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 1103; (C)CS 1143; (C)CS 1153; (C)CS 1333 or (C)CS 2173 or (C)CS 2443; (C)(2)CS 1353; (C)(3)(4)CS 2303 or (C)(3)CS 2503; (C)CS 2183; (C)CS 2713; (C)CS 2723; (C)CS 2743; (C)CS 2763; (C)CS 2783

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.

(1) Advance standing is available

(2) A+ Certification Preparation Course

(3) Network+ Certification Preparation Course

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