

Computer Science - Cyber/Information Security (AS)

Associate in Science

Minimum of 61-62 Credits

This curriculum is designed to provide the student with an introduction to the cyber/information security area as well as provide the foundational education needed in programming for a student to move on to a four-year cyber/information security program.

Course #	Course Name	Credits	Type	Prerequisites
<i>Suggested Freshman 1st Semester</i>				
SCL 1001	SUCCESS IN COLLEGE AND LIFE	1	Life Skills	None
CS 1143	(C) BEGINNING PROGRAMMING	3	Major	(R) (W) (M) or Evaluation by Instructor
ENGL 1113	ENGLISH COMPOSITION I	3	Gen Ed	(R) (W), Adequate reading and writing assessment scores or LS 0033 College Writing II, either taken within the last year, with strong encouragement for immediate continuation.
POLSC 1113	AMERICAN FEDERAL GOVERNMENT	3	Gen Ed	(R) (W)
MATH 1533	PRE-CALCULUS AND ANALYTIC GEOMETRY	3	Gen Ed	(R) (W), MATH 0123, or adequate Math Placement Test Score, either within the last year.
PHYS SC	ANY PHYSICAL SCIENCE CHOSEN FROM ASTR, PHYS, CHEM, OR GEOL PREFIXES	3-4	Gen Ed	
<i>Suggested Freshman 2nd Semester</i>				
CS 2163	(C) JAVA	3	Major	(R) (W) (M), CS 1143 or Evaluation by Instructor
CS 2713	(C) PRINCIPLES OF INFORMATION SECURITY	3	Major	(R) (W) (M)
ENGL 1213	ENGLISH COMPOSITION II	3	Gen Ed	(R) (W), ENGL 1113 English Composition I taken within the last year, with strong encouragement for immediate continuation.
HIST 1483	U.S. HISTORY TO THE CIVIL WAR --OR--		Gen Ed	(R) (W)
HIST 1493	U.S. HISTORY SINCE THE CIVIL WAR	3	Gen Ed	(R) (W)
MATH 1613	TRIGONOMETRY	3	Gen Ed	Pre or Corequisite: (R), MATH 1513 or MATH 1533 or adequate Math Placement Test Score
<i>Suggested Sophomore 1st Semester</i>				
CS 2453	(C) VISUAL BASIC	3	Major	(R) (W) (M), CS 1143 or Evaluation by Instructor
PSY 1113	INTRODUCTION TO PSYCHOLOGY --OR--		Gen Ed	(R)
SOC 1113	INTRODUCTION TO SOCIOLOGY	3	Gen Ed	(R)
MATH 2104	CALCULUS AND ANALYTIC GEOMETRY I	4	Gen Ed	(R) (W), MATH 1533 and MATH 1613 or adequate Math Placement Test Score
BIO SC	ANY OF THE FOLLOWING BIOLOGICAL SCIENCE COURSES: BIO 1113, BIO 1114, BIO 2114, BIO 2125, BIO 2215, BIO 2343, OR BIO 2404	3-4	Gen Ed	
HUM	HUMANITIES ELECTIVE	3	Gen Ed	
<i>Suggested Sophomore 2nd Semester</i>				
CS 2463	(C) ADVANCED JAVA --OR--		Major	(R) (W) (M), CS 2163 or Evaluation by Instructor
CS 2553	(C) ADVANCED VISUAL BASIC --OR--		Major	(R) (W) (M), CS 2453 or Evaluation by Instructor
CS 2563	(C) C#.NET	3	Major	(R) (W) (M), CS 2163 or Evaluation by Instructor
COM 1123	INTERPERSONAL COMMUNICATIONS --OR--		Gen Ed	(R) (W)
COM 2213	INTRO TO PUBLIC SPEAKING	3	Gen Ed	(R)
MATH 2214	CALCULUS AND ANALYTIC GEOMETRY II	4	Gen Ed	(R) (W), MATH 2104 or equivalent within the last year
HUM	HUMANITIES ELECTIVE	3	Gen Ed	

Major Courses: (15 credit hours) Computer Science: (C)CS 1143; (C)CS 2163; (C)CS 2453; (C)CS 2463 or (C)CS 2553 or (C)CS 2563; or (C)CS 2713

General Education Courses: (45-46 credit hours) English: ENGL 1113; ENGL 1213; History: HIST 1483 or HIST 1493; Mathematics: MATH 1533; MATH 1613; MATH 2104; MATH 2214; Political Science: POLSC 1113; Communications: COM 1123 or COM 2213; Social Sciences: PSY 1113 or SOC 1113; *Sciences: Three to four credit hours of Biological Science chosen from BIO 1113, BIO 1114, BIO 2114, BIO 2125; BIO 2215, BIO 2343, or BIO 2404; three to four hours of any Physical Science chosen from ASTR; PHYS; CHEM; or GEOL prefixes. At least one science course must include a laboratory component; Humanities: Six credit hours of Humanities electives

Life Skills Courses: (1 credit hour) Life Skills: SCL 1001

Notes: This program is designed for students planning to continue their education at a four-year college or university.

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

* At least one science course must include a laboratory component