Computer Science – Cybersecurity Emphasis
Associate in Science
Offered Online

Degree Program Mentor

For additional information regarding this degree, contact the Degree Program Mentor.

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Program Objective

The objective of the Computer Science Associate in Science is to prepare students for transfer to a bachelor degree granting institution to major in computer science or information systems.

Requirements for Graduation

1. Sixty-three designated semester credit hours.
2. Grade of "C" or better required in all Major Field Requirement courses.
3. Grade Point Average of 2.0 or better.
4. Fifteen semester credit hours in attendance at SSC.
5. Completion of Graduate Exit Survey.

Please Note: Consult with advisor for specific transfer requirements. General Education and Major Field requirements vary between universities.

For Information Contact:
Science, Technology, Engineering, and Mathematics Division (405) 382-9266

Transfer Note: A statewide transfer agreement guarantees students transferring to an Oklahoma public four-year university **with an associate in arts or associate in science degree** that the associate degree will satisfy all freshman and sophomore general education requirements at the four-year university.

General Education Requirements **42**

GOV	1113	American National Government	3
HIST	1483	American History to 1877 **OR**	
HIST	1493	American History since 1877	3
ENG	1113	Composition I	3
ENG	1213	Composition II	3
SPCH	1143	Speech	3
HUM		Any class designated as Humanities	6
MATH	1513	Pre-Calculus for Eng-Phys-CS	3
SCIENCE		One Life Science with lab **AND** One Physical Science with lab	8
CAP	1103	Introduction to Microsoft Office	3
HPER	1012	Wellness and Human Development **OR** Two HPER Activity Courses	2
STSC	1002	Learning Strategies	2
ELECTIVE		Select from Fine Arts, Psychology, or Social Sciences	3

Major Field Requirements **15**

CS	1033	Introduction to Computers and Computer Logic (FO)
CS	1183	Information Security (SO)
CS	2033	Script Programming (SO)
CS	2013	Programming in C++ I (SO)
CS	2023	Programming in C++ II (FO)

Major Field Electives and Support **6**

BA	2253	Business Statistics
MATH	2063	Discrete Mathematics

MINIMUM TOTAL HOURS REQUIRED FOR ASSOCIATE DEGREE **63**

SSC + OU Polytechnic Institute Transfer Agreement:

Seminole State College has a Transfer Agreement with the University of Oklahoma for SSC's Associate of Science in Computer Science Cybersecurity Emphasis to the **OU Polytechnic Institute's Bachelor of Science in Cybersecurity**.

FO=Fall Only   FOO=Fall Odd Yrs Only   FEO=Fall Even Yrs Only
SO=Spring Only   SOO=Spring Odd Yrs Only   SEO=Spring Even Yrs Only

Computer Science – Cybersecurity Emphasis
Associate in Science
2025-27 Degree Requirements Checklist

A statewide transfer agreement guarantees students transferring to an Oklahoma public four-year university **with an associate in arts or associate in science degree** will satisfy all freshman and sophomore general education requirements at the four-year university.

GENERAL EDUCATION REQUIREMENTS

6 hrs. — **Social Sciences**
- □ GOV 1113 American National Government
- □ HIST 1483 American History Survey to 1877 **OR** HIST 1493 American History Survey since 1877

9 hrs. — **Language Arts**
- □ ENG 1113 Composition I
- □ ENG 1213 Composition II
- □ SPCH 1143 Speech

6 hrs. — **Humanities**
Select two of the following:
- □ ART/HUM 1153 Art History I (FO)
- □ ART/HUM 1163 Art History II (SO)
- □ ART/HUM 1203 Art Appreciation
- □ ART 2323 Global Studies in Art (TBD Summer)
- □ ENG/HUM 2033 Survey of Native American Literature (SEO)
- □ ENG 2403 Global Studies in Language Arts and Humanities (TBD Summer)
- □ ENG/HUM 2413 Introduction to Literature (FO)
- □ ENG/HUM 2433 World Literature I (SO)
- □ ENG/HUM 2443 Introduction to World Mythology (FOO)
- □ ENG/HUM 2543 British Literature I (FEO)
- □ ENG/HUM 2653 British Literature II (FOO)
- □ ENG/HUM 2753 American Literature I (SEO)
- □ ENG/HUM 2883 American Literature II (SOO)
- □ HIST/HUM 2223 Early Western Civilization to 1660
- □ HIST/HUM 2233 Modern Western Civilization since 1660
- □ HUM 1103 Life of Jesus (SO)
- □ HUM 1113 Old Testament (SO)
- □ HUM 1143 New Testament (FO)
- □ HUM 2123 Multiculturalism through Film
- □ HUM 2153 Crime, Delinquency and Social Science Issues through Film (SO)
- □ HUM 2173 Introduction to Film & TV (SO)
- □ HUM 2323 Social Science Issues as Perceived through Movies
- □ HUM 2333 Leadership Development through the Classics
- □ HUM 2343 Global Studies in Humanities
- □ MUS/HUM 1213 Music Appreciation I
- □ MUS/HUM 1223 Music Appreciation II
- □ PHIL 1113 Philosophy (FO)
- □ SOC 2433 Global Studies in Culture and Diversity (TBD Summer)
- □ SPCH/HUM 1523 Introduction to Theatre (FO)

3 hrs. — **Mathematics**
- □ MATH 1513 Pre-Calculus for Eng-Phys-CS

4 hrs. — **Life Science**
Select one of the following:
- □ AGRI 1104 Introduction to Animal Science (FO)
- □ AGRI 1204 Introduction to Plant and Soil Science (SO)
- □ BIOL 1114 General Biology
- □ BIOL 1214 Principles of Biology
- □ BIOL 1224 General Botany (SO)
- □ BIOL 1234 General Zoology (SO)

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4 hrs. — **Physical Science**
Select one of the following:
- □ AGRI 2144 Fundamentals of Soil Science (SO)
- □ CHEM 1114 Introduction to Chemistry
- □ CHEM 1315 General Chemistry I
- □ ENVS 1114 Introduction to Environmental Science (FO)
- □ PHYS 1114 General Physical Science
- □ PHYS 1214 Earth Science
- □ PHYS 1314 Astronomy
- □ PHYS 1414 Physical Geology
- □ PHYS 2114 General Physics I (FO)
- □ PHYS 2224 General Physics II (SO)

3 hrs. — **Computer Applications**
- □ CAP 1103 Introduction to Microsoft Office

2 hrs. — **Health, Physical Education and Recreation**
- □ HPER 1012 Wellness and Human Development **OR** Two HPER Activity Courses

2 hrs. — **Student Success**
Required during first semester
- □ STSC 1002 Learning Strategies

3 hrs. — **General Education Elective**
- □ Select from Fine Arts, Psychology, or Social Sciences

42 hrs. — TOTAL REQUIRED GENERAL EDUCATION HOURS

MAJOR FIELD REQUIREMENTS

15 hrs.
- □ CS 1033 Intro. to Computers and Computer Logic (FO)
- □ CS 1183 Information Security (SO)
- □ CS 2033 Script Programming (SO)
- □ CS 2013 Programming in C++ I (SO)
- □ CS 2023 Programming in C++ II (FO)

MAJOR FIELD ELECTIVES AND SUPPORT

6 hrs.
- □ BA 2253 Business Statistics
- □ MATH 2063 Discrete Mathematics

21 hrs. — TOTAL REQUIRED MAJOR FIELD HOURS

63 hrs. — MINIMUM TOTAL HOURS REQUIRED FOR ASSOCIATE DEGREE

revised 04/2025

Semester by Semester Suggested Degree Plan*
Computer Science – Cybersecurity Emphasis
Associate in Science

COURSE NUMBER- COURSE DESCRIPTION	HOURS
FRESHMAN YEAR, FALL	
☐ STSC 1002 LEARNING STRATEGIES	2
☐ ENG 1113 COMPOSITION I	3
☐ MATH 1513 PRE-CALCULUS FOR ENG-PHYS-CS	3
☐ CS 1033 INTRODUCTION TO COMPUTERS AND COMPUTER LOGIC (FO)	3
☐ CAP 1103 INTRODUCTION TO MICROSOFT OFFICE	3
☐ HPER 1012 WELLNESS AND HUMAN DEVELOPMENT	2
TOTAL:	16
FRESHMAN YEAR, SPRING	
☐ ENG 1213 COMPOSITION II	3
☐ CS 1183 INFORMATION SECURITY (SO)	3
☐ CS 2013 PROGRAMMING IN C++ I (SO)	3
☐ HUM	3
☐ LIFE SCIENCE**	4
TOTAL:	16
SOPHOMORE YEAR, FALL	
☐ ELECTIVE***	3
☐ HIST 1483 AMERICAN HISTORY TO 1877 **OR** HIST 1493 AMERICAN HISTORY SINCE 1877	3
☐ PHYSICAL SCIENCE+	4
☐ CS 2023 PROGRAMMING IN C++ II (FO)	3
☐ MATH 2063 DISCRETE MATHEMATICS	3
TOTAL:	16
SOPHOMORE YEAR, SPRING	
☐ BA 2253 BUSINESS STATISTICS	3
☐ CS 2033 SCRIPT PROGRAMMING (SO)	3
☐ GOV 1113 AMERICAN NATIONAL GOVERNMENT	2
☐ HUM	3
☐ SPCH 1143 SPEECH	3
TOTAL:	15
TOTAL HOURS:	**63**

*THIS IS A GUIDE TO HELP STUDENTS WITH PLANNING. A STUDY OF THE COURSE SCHEDULE AND A VISIT WITH YOUR ACADEMIC ADVISOR IS CRUCIAL FOR SUCCESS IN COMPLETING YOUR DEGREE.

**LIFE SCIENCES:
 AGRI 1104, AGRI 1204, BIOL 1114, BIOL 1214, BIOL 1224, BIOL 1234

***ELECTIVE = FINE ARTS, PSYCHOLOGY, OR SOCIAL SCIENCES

+PHYSICAL SCIENCES:
 AGRI 2144, CHEM 1114, CHEM 1315, ENVS 1114, PHYS 1114, PHYS 1214, PHYS 1314, PHYS 1414, PHYS 2114, PHYS 2224

FO=FALL ONLY   FOO=FALL ODD YRS ONLY   FEO=FALL EVEN YRS ONLY   SO=SPRING ONLY   SOO=SPRING ODD YRS ONLY   SEO=SPRING EVEN YRS ONLY