

# Computer Science – Programming 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 <b>or</b>	
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 <b>and</b>	
	One Physical Science with lab .....	8
CAP 1103	Introduction to Microsoft Office .....	3
HPER 1012	Wellness and Human Development <b>or</b>	
	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

*Recommended: (3 hours)*

CS 2003	Webpage Design Using HTML	
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*Select from the following: (3 hours)*

ACCT 2033	Financial Accounting	
BA 2113	Macroeconomics	
BA 2253	Business Statistics	
CS 1113	Programming in Visual Basic	
CS 1173	Hardware and Network Systems Support	
CS 1303	Ethics in Information Technology	
CS 2173	Operating Systems	
CS 2263	Digital Forensics	
CS 2643	Advanced Microsoft Excel	
ENGR 1113	Introduction to Engineering (FO)	
MATH 1613	Plane Trigonometry (SO)	
MATH 2215	Calculus and Analytic Geometry I (SO)	
MATH 2424	Calculus and Analytic Geometry II (FO)	
MATH 2434	Calculus and Analytic Geometry III (SO)	

### MINIMUM TOTAL HOURS REQUIRED FOR ASSOCIATE DEGREE ..... 63

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



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 2025-26 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.

6 hrs.	<b>GENERAL EDUCATION REQUIREMENTS</b> <b>Social Sciences</b> <input type="checkbox"/> GOV 1113 American National Government <input type="checkbox"/> HIST 1483 American History Survey to 1877 <b>or</b> <input type="checkbox"/> HIST 1493 American History Survey since 1877	4 hrs.	<b>Physical Science</b> <i>Select one of the following:</i> <input type="checkbox"/> AGRI 2144 Fundamentals of Soil Science (SO) <input type="checkbox"/> CHEM 1114 Introduction to Chemistry <input type="checkbox"/> CHEM 1315 General Chemistry I <input type="checkbox"/> ENVS 1114 Introduction to Environmental Science (FO) <input type="checkbox"/> PHYS 1114 General Physical Science <input type="checkbox"/> PHYS 1214 Earth Science <input type="checkbox"/> PHYS 1314 Astronomy <input type="checkbox"/> PHYS 1414 Physical Geology <input type="checkbox"/> PHYS 2114 General Physics I (FO) <input type="checkbox"/> PHYS 2224 General Physics II (SO)
9 hrs.	<b>Language Arts</b> <input type="checkbox"/> ENG 1113 Composition I <input type="checkbox"/> ENG 1213 Composition II <input type="checkbox"/> SPCH 1143 Speech	3 hrs.	<b>Computer Applications</b> <input type="checkbox"/> CAP 1103 Introduction to Microsoft Office
6 hrs.	<b>Humanities</b> <i>Select two of the following:</i> <input type="checkbox"/> ART/HUM 1153 Art History I (FO) <input type="checkbox"/> ART/HUM 1163 Art History II (SO) <input type="checkbox"/> ART/HUM 1203 Art Appreciation <input type="checkbox"/> ART 2323 Global Studies in Art (TBD Summer) <input type="checkbox"/> ENG/HUM 2033 Survey of Native American Literature (SEO) <input type="checkbox"/> ENG 2043 Global Studies in Language Arts and Humanities (TBD Summer) <input type="checkbox"/> ENG/HUM 2413 Introduction to Literature (FO) <input type="checkbox"/> ENG/HUM 2433 World Literature I (SO) <input type="checkbox"/> ENG/HUM 2443 Introduction to World Mythology (FOO) <input type="checkbox"/> ENG/HUM 2543 British Literature I (FEO) <input type="checkbox"/> ENG/HUM 2653 British Literature II (FOO) <input type="checkbox"/> ENG/HUM 2753 American Literature I (SEO) <input type="checkbox"/> ENG/HUM 2883 American Literature II (SOO) <input type="checkbox"/> HIST/HUM 2223 Early Western Civilization to 1660 <input type="checkbox"/> HIST/HUM 2233 Modern Western Civilization since 1660 <input type="checkbox"/> HUM 1103 Life of Jesus (SO) <input type="checkbox"/> HUM 1113 Old Testament (SO) <input type="checkbox"/> HUM 1143 New Testament (FO) <input type="checkbox"/> HUM 2123 Multiculturalism through Film <input type="checkbox"/> HUM 2153 Crime, Delinquency and Social Science Issues through Film (SO) <input type="checkbox"/> HUM 2173 Introduction to Film & TV (SO) <input type="checkbox"/> HUM 2323 Social Science Issues as Perceived through Movies <input type="checkbox"/> HUM 2333 Leadership Development through the Classics <input type="checkbox"/> HUM 2343 Global Studies in Humanities <input type="checkbox"/> MUS/HUM 1213 Music Appreciation I <input type="checkbox"/> MUS/HUM 1223 Music Appreciation II <input type="checkbox"/> PHIL 1113 Philosophy (FO) <input type="checkbox"/> SOC 2433 Global Studies in Culture and Diversity (TBD Summer) <input type="checkbox"/> SPCH/HUM 1523 Introduction to Theatre (FO)	2 hrs.	<b>Health, Physical Education and Recreation</b> <input type="checkbox"/> HPER 1012 Wellness and Human Development <b>or</b> Two HPER Activity Courses
3 hrs.	<b>Mathematics</b> <input type="checkbox"/> MATH 1513 Pre-Calculus for Eng-Phys-CS	2 hrs.	<b>Student Success</b> <i>Required during first semester</i> <input type="checkbox"/> STSC 1002 Learning Strategies
4 hrs.	<b>Life Science</b> <i>Select one of the following:</i> <input type="checkbox"/> AGRI 1104 Introduction to Animal Science (FO) <input type="checkbox"/> AGRI 1204 Introduction to Plant and Soil Science (SO) <input type="checkbox"/> BIOL 1114 General Biology <input type="checkbox"/> BIOL 1214 Principles of Biology <input type="checkbox"/> BIOL 1224 General Botany (SO) <input type="checkbox"/> BIOL 1234 General Zoology (SO)	3 hrs.	<b>General Education Elective</b> <input type="checkbox"/> Select from Fine Arts, Psychology, or Social Sciences
		42 hrs.	<b>TOTAL REQUIRED GENERAL EDUCATION HOURS</b>
		15 hrs.	<b>MAJOR FIELD REQUIREMENTS</b> <input type="checkbox"/> CS 1033 Intro. to Computers and Computer Logic (FO) <input type="checkbox"/> CS 1183 Information Security (SO) <input type="checkbox"/> CS 2033 Script Programming (SO) <input type="checkbox"/> CS 2013 Programming in C++ I (SO) <input type="checkbox"/> CS 2023 Programming in C++ II (FO)
		6 hrs.	<b>MAJOR FIELD ELECTIVES AND SUPPORT</b> <i>Recommended: (3 hours)</i> <input type="checkbox"/> CS 2003 Webpage Design Using HTML  <i>Select from the following: (3 hours)</i> <input type="checkbox"/> ACCT 2033 Financial Accounting <input type="checkbox"/> BA 2113 Macroeconomics <input type="checkbox"/> BA 2253 Business Statistics <input type="checkbox"/> CS 1113 Programming in Visual Basic <input type="checkbox"/> CS 1173 Hardware and Network Systems Support <input type="checkbox"/> CS 1303 Ethics in Information Technology <input type="checkbox"/> CS 2173 Operating Systems <input type="checkbox"/> CS 2263 Digital Forensics (SO) <input type="checkbox"/> CS 2643 Advanced Microsoft Excel <input type="checkbox"/> ENGR 1113 Introduction to Engineering (FO) <input type="checkbox"/> MATH 1613 Plane Trigonometry (SO) <input type="checkbox"/> MATH 2215 Calculus and Analytic Geometry I (SO) <input type="checkbox"/> MATH 2424 Calculus and Analytic Geometry II (FO) <input type="checkbox"/> MATH 2434 Calculus and Analytic Geometry III (SO)
		21 hrs.	<b>TOTAL REQUIRED MAJOR FIELD HOURS</b>
		63 hrs.	<b>MINIMUM TOTAL HOURS REQUIRED FOR ASSOCIATE DEGREE</b>
		<i>revised 02/2025</i>	
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Semester by Semester Suggested Degree Plan\*  
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COURSE NUMBER- COURSE DESCRIPTION	HOURS
<b>FRESHMAN YEAR, FALL</b>	
<input type="checkbox"/> STSC 1002 LEARNING STRATEGIES	2
<input type="checkbox"/> ENG 1113 COMPOSITION I	3
<input type="checkbox"/> MATH 1513 PRE-CALCULUS FOR ENG-PHYS-CS	3
<input type="checkbox"/> CS 1033 INTRODUCTION TO COMPUTERS AND COMPUTER LOGIC (FO)	3
<input type="checkbox"/> HIST 1483 AMERICAN HISTORY TO 1877 <b>OR</b> HIST 1493 AMERICAN HISTORY SINCE 1877	3
<input type="checkbox"/> ELECTIVE***	3
<b>TOTAL:</b>	<b>17</b>
<b>FRESHMAN YEAR, SPRING</b>	
<input type="checkbox"/> ENG 1213 COMPOSITION II	3
<input type="checkbox"/> CS 1183 INFORMATION SECURITY (SO)	3
<input type="checkbox"/> CS 2013 PROGRAMMING IN C++ I (SO)	3
<input type="checkbox"/> GOV 1113 AMERICAN NATIONAL GOVERNMENT	3
<input type="checkbox"/> LIFE SCIENCE**	4
<b>TOTAL:</b>	<b>16</b>
<b>SOPHOMORE YEAR, FALL</b>	
<input type="checkbox"/> HUM	3
<input type="checkbox"/> CAP 1103 INTRODUCTION TO MICROSOFT OFFICE	3
<input type="checkbox"/> PHYSICAL SCIENCE+	4
<input type="checkbox"/> CS 2023 PROGRAMMING IN C++ II (FO)	3
<input type="checkbox"/> MAJOR FIELD ELECTIVE	3
<b>TOTAL:</b>	<b>16</b>
<b>SOPHOMORE YEAR, SPRING</b>	
<input type="checkbox"/> HUM	3
<input type="checkbox"/> HPER 1012 WELLNESS AND HUMAN DEVELOPMENT	3
<input type="checkbox"/> CS 2033 SCRIPT PROGRAMMING (SO)	2
<input type="checkbox"/> MAJOR FIELD ELECTIVE	3
<input type="checkbox"/> SPCH 1143 SPEECH	3
<b>TOTAL:</b>	<b>14</b>
<b>TOTAL HOURS:</b>	<b>63</b>

\*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

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