

## 8-Semester Guaranteed Program

**2019-2020 Degree Map-Bachelor of Science in Computer Science Education**

This map is a term-by-term sample course schedule. The milestones listed to the right of each term are designed to keep you on course to graduate in four years. The Sample Schedule serves as a general guideline to help you build a full schedule each term. See course descriptions and prerequisites at <http://www.atu.edu/catalog/>

**Possible careers include:** Computer Science Teacher

#Prerequisite Courses: ENGL 0303 \_\_\_\_\_ ENGL 0404 \_\_\_\_\_ READ 0103 \_\_\_\_\_ MATH 0803 \_\_\_\_\_ MATH 1003 \_\_\_\_\_ MATH 0903 \_\_\_\_\_ MATH 0900 \_\_\_\_\_ MATH 1113 \_\_\_\_\_ MATH 1110 \_\_\_\_\_ MATH 1203 \_\_\_\_\_ MATH 1914 \_\_\_\_\_ COMS 1003 \_\_\_\_\_

**Sample Schedule**

Semester 1	Hrs.	Grade	Milestones/Notes	Semester 1
ENGL 1013- Comp I (ACTS=ENGL 1013)	3	#		Required for Admission to Stage II
MATH 1113- College Algebra or higher (ACTS= MATH 1103)	3	#		Required for Admission to Stage II
TECH 1001- Orientation to the University	1			
COMS 1333- Web Publishing I	3	#		Prereq: COMS 1003 or BUAD 2003
COMS 1403- Orientation to Computing, Info, & Tech	3	#		Co-req: COMS 1411 & MATH 1113 or higher Milestone
COMS 1411- Computer and Information Science Lab	1	#		(Co-req: COMS 1403) Milestone
<b>Total hours</b>	<b>14</b>	<b>GPA</b>		

Semester 2	Hrs.	Grade	Milestones/Notes	Semester 2
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#		Required for Admission to Stage II
Social Sciences	3			
Fine Arts & Humanities	3			
COMS 2104- Foundations of Computer Programming I	4	#		Milestone - Prereq: COMS 1403/1411 & # in MATH 1113 or higher
COMS 2703/2700- Networks and Architecture/LAB	3	#		Prereq: COMS 1403/1411
<b>Total hours</b>	<b>16</b>	<b>GPA</b>		

Semester 3	Hrs.	Grade	Milestones/Notes	Semester 3
SEED 2002- Education as a Profession	2	#		Required for Admission to Stage II
COMM 2173- Business and Professional Speaking	3			COMM 2003 may substitute/Req'd for Stage II
COMS 2203- Foundations of Computer Programming II	3	#		Milestone - Prereq: # COMS 2104 & # MATH 1113 or higher
COMS 2903-Discrete Structures for Technical Majors	3	#		Milestone - Prereq: # COMS 2104 & # MATH 1113 or higher
Science with Lab	4			
<b>Total hours</b>	<b>15</b>	<b>GPA</b>		

Semester 4	Hrs.	Grade	Milestones/Notes	Semester 4
COMS 2213- Data Structures	3	#		Milestone - Prereq: COMS 2203 & 2903
STAT 2163- Intro to Statistical Methods	3			Prereq: MATH 1003 or higher
Social Sciences	3			
U.S. History/Government	3			
Science with Lab	4			COMS and SEED Advisor Assigned
<b>Total hours</b>	<b>16</b>	<b>GPA</b>		<b>2.70+ GPA REQUIRED</b>

The Arkansas Course Transfer System (ACTS) is designed to assist in planning the academic progress of students. This system contains information about the transferability of courses within Arkansas public colleges and universities. The Arkansas Course Transfer System can be accessed at <http://acts.adhe.edu/>

\*The elective courses placed in the degree should be used by students to take either COMS courses or courses in another area that the student would like to get certified (i.e. mathematics, business - both of which offer a minor)

Fine Arts and Humanities	U.S. History & Government
ART 2123 Experiencing Art (ACTS=ARTA1003)	HIST 1903 Survey of American History
MUS 2003 Introduction to Music (ACTS=MUSC1003)	HIST 2003 United States History to 1877 (ACTS=HIST2113)
TH 2273 Introduction to Theatre (ACTS=DRAM 1003)	HIST 2043 Honors United States History to 1877
ENGL 2173 Introduction to Film	HIST 2013 United States History from 1877 (ACTS=HIST2123)
JOUR 2173 Introduction to Film	POLS 2003 American Government (ACTS=PLSC2003)
ENGL 2183 Honors Introduction to Film	<b>Science with Lab</b>
ENGL 2003 Introduction to World Literature (ACTS=ENGL2113)	BIOL 1014- Intro. to Biological Science (ACTS= BIOL1004)
ENGL 2013 Intro. to American Literature (ACTS=ENGL2653)	ENVS 1004- Principles of Environmental Science
ENGL 2023 Honors World Literature	GEOL 1014- Physical Geology (ACTS= GEOL 1114)
PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103)	PHSC 1013/1021- Physical Sci/Lab (ACTS= PHSC 1004)
PHIL 2043 Honors Introduction to Philosophy	
PHIL 2053 Introduction to Critical Thinking (ACTS=PHIL 1003)	

**Sample Schedule**

Semester 5	Hrs.	Grade	Milestones/Notes	Semester 5
COMS 3053- Implications of Technology on Society	3	#		
COMS 3233- Database Design and Implementation	3	#		Prereq: COMS 2003 & 2203 & 2903
COMS 3903- Systems Software and Architecture	3	#		Prereq: COMS 2703 and 2104
*Elective	3			
*Elective	3			
<b>Total hours</b>	<b>15</b>	<b>GPA</b>		

Semester 6	Hrs.	Grade	Milestones/Notes	Semester 6
Fine Arts & Humanities	3			
SEED 3702- Introduction to Educational Technology	2	#		
COMS 3243- Data Mining	3	#		Prereq: COMS 3233 & 3-hour statistics
COMS 3413- App Development	3	#		Prereq: COMS 1333 and COMS 2213
*Elective	4			
<b>Total hours</b>	<b>15</b>	<b>GPA</b>		<b>APPLY FOR GRADUATION</b>

Semester 7	Hrs.	Grade	Milestones/Notes	Semester 7
SEED 4556- Classroom Application of Educational Psychology	6	#		Coreq: SEED 4054; Requires Stage II Admission
SEED 4054- Educating Developing, Diverse and Exceptional Learners	4	#		Coreq: SEED 4556; Requires Stage II Admission
COMS 4033- Systems Analysis and Design I	3	#		Prereq: COMS 3233
COMS 4813- Teaching Methods in Computer Science Ed	3	#		Requires Stage II Admission and 75% of COMS courses completed, offered Fall
<b>Total hours</b>	<b>16</b>	<b>GPA</b>		<b>APPLY FOR INTERNSHIP</b>

Semester 8	Hrs.	Grade	Milestones/Notes	Semester 8
SEED 4503- Seminar in Secondary Education	3	#		<b>MUST BE ADMITTED TO INTERNSHIP</b>
SEED 4809- Teaching in Elementary and Secondary School	9	#		
COMS 4801- Special Methods in Computer Science Ed	1	#		
<b>Total Hours</b>	<b>13</b>	<b>GPA</b>		<b>Graduation Requirements:</b> Min. hours required:120 2.70+ GPA

**General Electives: 10 hours**

# indicates a "C" or better is required

Social Sciences
ECON 2013 Principles of Economics II (ACTS=ECON2203)
SOC 1003 Introductory Sociology (ACTS=SOCI1013)
PSY 2003 General Psychology (ACTS=PSYC1103)
ANTH 1213 Intro. to Anthropology (ACTS=ANTH1013)
ANTH 2003 Cultural Anthropology (ACTS=ANTH2013)
GEOG 2013 Regional Geography of the World (ACTS=GEOG2103)
AMST 2003 American Studies