

**2023-2024 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 \_\_\_\_\_ MATH 0803 \_\_\_\_\_ MATH 1003 \_\_\_\_\_ MATH 0903 \_\_\_\_\_ MATH 1113 \_\_\_\_\_ MATH 1110 \_\_\_\_\_ MATH 1203 \_\_\_\_\_ MATH 1914 \_\_\_\_\_

**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 (ACTS= MATH 1103) or higher	3	#	Required for Admission to Stage II	
TECH 1001- Orientation to the University	1			
Social Sciences	3			
CSEC 1113- Introduction to Networking	3	#		
COMS 1333- Web and Mobile Technologies	3	#		
Total hours	16	GPA		

Semester 2	Hrs.	Grade	Milestones/Notes	Semester 2
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#	Required for Admission to Stage II	
Fine Arts & Humanities	3			
COMS 1013- Programming Foundations I	3	#	Prereq: MATH 1113 or higher	
COMS 1011- Programming Foundations I Lab	1	#	PASS/FAIL - Coreq: COMS 1013	
COMS 2703- Computer Hardware & Architecture	3	#		
COMS 2713- Survey of Operating Systems	3	#	COMS 3703 Adv. Operating Systems will sub	
Total hours	16	GPA		

Semester 3	Hrs.	Grade	Milestones/Notes	Semester 3
SEED 2002- Education as a Profession	2	#	Required for Admission to Stage II	
COMS 2203- Programming Foundations II	3	#	Milestone - Prereq: # COMS 1013 & # MATH 1113 or higher	
Science with Lab	4			
MATH 2703-Discrete Mathematics	3		Milestone - Prereq: # MATH 1113 or higher	
CSEC 2213- Network Forensics and Incident Response	3	#	Prereq: CSEC 1113	
Total hours	15	GPA		

Semester 4	Hrs.	Grade	Milestones/Notes	Semester 4
COMM 2173- Business & Prof. Speaking <b>OR</b> COMM 2003- Public Speaking	3		Req'd for Stage II	
U.S. History/Government	3			
ENGL 2053-Technical Writing (ACTS=ENGL 2023)	3		Prereq: ENGL 1023	
COMS 2213- Data Structures	3	#	Milestone - Prereq: MATH 2703 and # in COMS 2203	
STAT 2163- Intro to Statistical Methods (pre-req MATH 1003 or higher)	3		<b>COMS and SEED Advisor Assigned</b>	
Total hours	15	GPA	<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 by searching keyword "ACTS" at <https://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). This will make graduates more marketable.

Fine Arts and Humanities	U.S. History & Government	Science with Lab
ART 2123 Experiencing Art (ACTS=ARTA1003) MUS 2003 Introduction to Music (ACTS=MUSC1003) TH 2273 Introduction to Theatre (ACTS=DRAM 1003) ENGL/IOUR 2173 Introduction to Film ENGL 2003 Introduction to World Literature (ACTS=ENGL2113) ENGL 2013 Intro. to American Literature (ACTS=ENGL2653) PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103) PHIL 2053 Introduction to Critical Thinking (ACTS=PHIL 1003) 1013 from SPAN, FR, GER, JPN, CHIN, or LAT 1023 from SPAN, FR, GER, JPN, CHIN, or LAT LEAD 2003 Ethics in Leadership	HIST 1903 Survey of American History HIST 2003 U.S. History to 1877 (ACTS=HIST2113) HIST 2013 U.S. History since 1877 (ACTS=HIST2123) POLS 2003 American Government (ACTS=PLSC2003)	BIOL 1014- Intro. to Biological Science (ACTS= BIOL1004) BIOL/PHSC 1004- Principles of Environmental Science GEOL 1014- Physical Geology (ACTS= GEOL 1114)

**Sample Schedule**

Semester 5	Hrs.	Grade	Milestones/Notes	Semester 5
Social Sciences	3			
COMS 3053- Ethical Issues in Technology	3	#		
COMS 3233- Data Design and Implementation	3	#	Prereq: COMS 2203	
COMS 3413- App Development	3	#	Prereq: COMS 1333 & 2213	
*Elective	3			
Total hours	15	GPA		

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	
Science with Lab	4			
*Elective	3			
Total hours	15	GPA	<b>APPLY FOR GRADUATION</b>	

Semester 7	Hrs.	Grade	Milestones/Notes	Semester 7
SEED 4054- Educating Developing, Diverse and Exceptional Learners	4	#	Coreq: SEED 4556; Requires Stage II Admission	
SEED 4556- Classroom Application of Educational Psychology	6	#	Coreq: SEED 4054; Requires Stage II Admission	
COMS 4063- IT Project Administration	3	#	Prereq: Jr standing	
COMS 4813- Teaching Methods in Computer Science Ed	3	#	Requires Stage II Admission and 75% of COMS courses completed, offered Fall	
Total hours	16	GPA	<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> Graduation Requirements: Min. hours required:120 2.70+ GPA	
SEED 4809- Teaching in Elementary and Secondary School	9	#		
Total Hours	12	GPA		

**General Electives:** 6 hours

# indicates a "C" or better is required

\*TECH 1013 Introduction to the University is a sub for TECH 1001 Orientation to University. General Electives would reduce from 3 hours to 1 hour.

**Shaded classes indicate classes toward AAS-Information Technology**

**Students should consider CP-Computer Programming. See catalog for details.**

Social Sciences
HIST 1503 World History to 1500 (ACTS=HIST1113) HIST 1513 World History since 1500 (ACTS=HIST1123) HIST 2003 U.S. History to 1877 (ACTS=HIST2113) HIST 2013 U.S. History since 1877 (ACTS=HIST2123) HIST 1903 Survey of American History POLS 2003 American Government (ACTS=PLSC2003) ECON 2003 Principles of Macroeconomics (ACTS=ECON2103) ECON 2013 Principles of Microeconomics (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 FIN 2013 Personal Finance LEAD 1003 Introduction to Leadership

**University Honors students should consult Course Catalog for appropriate Fine Arts/Humanities, US History/Government and Social Science options for University Honors Curriculum.**