

2018-2019 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 1110 _____ COMS 1003 _____

Sample Schedule
Milestones/Notes

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)	3	#	Required for Admission to Stage II	
TECH 1001- Orientation to the University	1			
COMS 1333- Web Publishing I	3	#	Prerequisite: COMS 1003 or BUAD 2003	
COMS 1403- Orientation to Computing, Info, & Tech	3	#		
COMS 1411- Computer and Information Science Lab	1	#		
Total hours	14	GPA		

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	#	Prerequisite: COMS 1403/1411	
COMS 2703/2700- Networks and Architecture/LAB	3	#	Prerequisite: COMS 1403/1411	
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	
COMM 2173- Business and Professional Speaking	3		COMM 2003 may substitute/Req'd for Stage II	
COMS 2203- Foundations of Computer Programming II	3	#	Prerequisite: COMS 2104	
COMS 2903-Discrete Structures for Technical Majors	3	#	Prerequisite: COMS 2104	
Science with Lab	4			
Total hours	15	GPA		

Semester 4	Hrs.	Grade	Milestones/Notes	Semester 4
Social Sciences	3			
U.S. History/Government	3			
Science with Lab	4			
COMS 2213- Data Structures	3	#	Prerequisites: COMS 2203, and COMS 2903	
MATH 2163- Intro to Statistical Methods	3		2.70+ GPA REQUIRED	
Total hours	16	GPA	COMS and SEED Advisor Assigned	

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 2003 Introduction to World Literature (ACTS=ENGL2113)	Science with Lab
ENGL 2013 Intro. to American Literature (ACTS=ENGL2653)	BIOL 1014- Intro. to Biological Science (ACTS= BIOL1004)
ENGL 2023 Honors World Literature	BIOL/PHSC 1004- Principles of Environmental Science
PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103)	GEOL 1014- Physical Geology (ACTS= GEOL 1114)
PHIL 2043 Honors Introduction to Philosophy	PHSC 1013/1021- Physical Sci/Lab (ACTS= PHSC 1004)
PHIL 2053 Introduction to Critical Thinking (ACTS=PHIL 1003)	

Sample Schedule
Milestones/Notes

Semester 5	Hrs.	Grade	Milestones/Notes	Semester 5
COMS 3053- Implications of Technology on Society	3	#		
COMS 3233- Database Design and Implementation	3	#	Prerequisites: COMS 2003, 2203, and 2903	
COMS 3903- Systems Software and Architecture	3	#	Prerequisites: COMS 2703 and 2104	
*Elective	3			
*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	#	Prerequisite: BUAD 2053/MATH 2163 and COMS 3233	
COMS 3413- App Development	3	#	Prerequisites: COMS 1333 and COMS 2213	
*Elective	4			
Total hours	15	GPA	APPLY FOR GRADUATION	

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	#	Prerequisite: COMS 3233	
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	APPLY FOR INTERNSHIP	

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

General Electives: 10 hours

indicates a "C" or better is required

Social Sciences	ECON
HIST 1503 World Civilization to 1500 (ACTS=HIST1113)	ECON 2013 Principles of Economics II (ACTS=ECON2203)
HIST 1513 World Civilization since 1500 (ACTS=HIST1123)	SOC 1003 Introductory Sociology (ACTS=SOC1013)
HIST 1543 Honors World Civilization to 1500	PSY 2003 General Psychology (ACTS=PSYC1103)
HIST 2003 U.S. History to 1877 (ACTS=HIST2113)	ANTH 1213 Intro. to Anthropology (ACTS=ANTH1013)
HIST 2013 U.S. History since 1877 (ACTS=HIST2123)	ANTH 2003 Cultural Anthropology (ACTS=ANTH2013)
HIST 2043 Honors U.S. History to 1877	GEOG 2013 Regional Geography of the World (ACTS=GEOG2103)
HIST 1903 Survey of American History	AMST 2003 American Studies
POLS 2003 American Government (ACTS=PLSC2003)	
ECON 2003 Principles of Economics I (ACTS=ECON2103)	
ECON 2103 Honors Principles of Economics I	