

NAME:	T#:	DATE:

8-Semester Guaranteed Program

Rev. 05/02/2018

2018-2019 Degree Map-Bachelor of Science in Computer Science

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 and Information Systems Manager, Computer Programmer, Computer Systems Analyst, and Web Administrator

#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			M	lectones/Note	oc .	Sample S	chedule				Milestones /	۸ı،

Sample Schedule		Milestones/Notes			
Semester 1	Hrs.	Grade	Semester 1		
ENGL 1013-comp (ACTS=ENGL 1013)	3	#			
MATH 2914- Calculus I (ACTS= MATH 2405)	4		# required for Gen Ed. Milestone		
U.S. History/Government	3				
TECH 1001-Orientation to the University	1				
COMS 1403- Orientation to Computing, Info, & Tech	3		Milestone		
COMS 1411- Computer and Information Science Lab	1		Milestone		
Total hours	15	GPA			

Semester 2	Hrs.		Semester 2
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#	
Social Sciences	3		
MATH 2924- Calculus II (ACTS= MATH 2505)	4		Milestone
COMS 2003- Microcomputer Applications	3		Prereq: COMS 1003 or BUAD 2003
COMS 2104- Foundations of Computer Prog. I	4	#	Milestone - Prereq: COMS 1403/1411
Total hours	17	GPA	

Semester 3	Hrs.		Semester 3
ELEG 2134/2130- Digital Logic Design/Lab	4		Prereq or Coreq: COMS 2104
Fine Arts & Humanities	3		
COMS 2203- Foundations of Computer Prog II	3		Milestone - Prereq: COMS 2104
COMS 2903-Discrete Structures	3		Milestone - Prereq: COMS 2104
Total hours	13	GPA	

Semester 4	Hrs.		Semester 4
ENGL 2053-Technical Writing (ACTS=ENGL 2023)	3		
Science Sequence I (excluding BIOL)*	4		
COMS 2213- Data Structures	3		Milestone - Prereq: COMS 2203 & 2903
COMS 2223- Computer Organization and Prog.	3		Prereq: COMS 2203 & ELEG 2134
COMS 3913- Advanced Discrete Structures	3		Prereq: COMS 2203 & 2903 & MATH 2914
Total hours	16	GPA	COMS 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/

indicates a "C" or higher is required

ART 2123 Experiencing Art (ACTS=ARTA1003)

Fine Arts and Humanities

MUS 2003 Introduction to Music (ACTS=MUSC1003)
TH 2273 Introduction to Theatre (ACTS=DRAM 1003)
ENGL 2173 Introduction to Film
JOUR 2173 Introduction to Film
ENGL 2003 Introduction to World Literature (ACTS=ENGL2113)
ENGL 2013 Intro. to American Literature (ACTS=ENGL2653)
ENGL 2023 Honors World Literature
PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103)
PHIL 2043 Honors Introduction to Philosophy
PHIL 2053 Introduction to Critical Thinking (ACTS=PHIL 1003)

U.S. History & Government	Ī
HIST 1903 Survey of American History	
HIST 2003 U.S. History to 1877 (ACTS=HIST2113)	
HIST 2043 Honors United States History to 1877	
HIST 2013 U.S. History since 1877 (ACTS=HIST2123)	
POLS 2003 American Government (ACTS=PLSC2003)	

Sample Schedule		N	/lilestones/Notes	
Semester 5	Hrs.	Grade	Semester	
Science Sequence II (excluding BIOL)*	4			
MATH 3153- Applied Statistics I	3		Prereq: MATH 2924	
COMS 2703/2700- Networks and Architecture/LAB	3		Milestone - Prereq: COMS 1403/1411	
COMS 3213- Adv. Data Structures and Algorithm Design	3		Prereq: COMS 2213 & 3913	
COMS 3233- Data Design and Implementation	3		Prereq: COMS 2003 & 2203 & 2903	
Total hours	16	GPA		

Semester 6	Hrs.		Semester 6
Fine Arts & Humanities	3		
COMM 2173- Business and Professional Speaking	3		No substitutions allowed
COMS 3703- Operating Systems	3		Prereq: COMS 2213 & 2223
COMS 4163- Personal Software Engineering	3		Prereq: COMS 3213
COMS 4703/4700- Data Comms. and Networks/LAB	3		Prereq: COMS 2703 & 2903; 2223 or 3903
Total hours	15	GPA	APPLY FOR GRADUATION

Semester 7	Hrs.		Semester 7
Social Sciences	3		
MATH 4003- Linear Algebra I	3		Prereq: MATH 2924
COMS 3053- Implications of Technology on Society	3		
COMS 4033- Systems and Analysis Design I	3		Prereq: COMS 3233
COMS 4103- Organization of Programming Languages	3		Prereq: COMS 2213 & 2223 & 3913
Total hours	15	GPA	

Semester 8	Hrs.		Semester 8
COMS 4043- Systems Analysis and Design II	3		
COMS 4403- Compiler Design	3		Graduation Requirements:
COMS 4053, 4063 or approved MGMT elective**	3		Min. hours 3000-4000 level courses: 40
Math*** or Science Elective	2		No more than 4 PE activity hours
General Elective (3000-4000 level)	2		Min. hours required:120
Total Hours	13	GPA	2.00+ GPA

General Electives: 2 hrs. (3000-4000 level)

HIST 1503 World Civilization to 1500 (ACTS=HIST1113) HIST 1513 World Civilization since 1500 (ACTS=HIST1123) HIST 1543 Honors World Civilization to 1500 HIST 2003 U.S. History to 1877 (ACTS=HIST2113) HIST 2013 U.S. History since 1877 (ACTS=HIST2123)

HIST 2043 Honors U.S. History to 1877 HIST 1903 Survey of American History POLS 2003 American Government (ACTS=PLSC2003) ECON 2003 Principles of Economics I (ACTS=ECON2103) ECON 2103 Honors Principles of Economics I

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=ANTH2013)
ANTH 2003 Cultural Anthropology (ACTS=ANTH2013)
GEOG 2013 Regional Geography of the World (ACTS=GEOG2103)
AMST 2003 American Studies

^{*}Suggested Science Sequence: PHYS 2014/2000 & 2024/2010 or PHYS 2114/2000 & 2124/2010

^{**}MGMT Course must be approved jointly by both MGMK and COMS Department Head

^{***}MATH Elective must be beyond Pre-Cal