ARKANSAS TECH UNIVERSITY

NAME:_____ T#:_____ DATE:_____

8-Semester Guaranteed Program

2017-2018 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/academics/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 1110_____ MATH 1203_____ MATH 1914_____ COMS 1003_____

Sample Schedule — Milestones/Notes

Semester 1	Hrs.	Grade	Semester 1
ENGL 1013-Comp I (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
Total hours	17	GPA	

Semester 3	Hrs.		Semester 3
ELEG 2134/2130- Digital Logic Design/ Lab	4		
Fine Arts & Humanities	3		
COMS 2203- Foundations of Computer Prog II	3		Milestone
COMS 2903-Discrete Structures	3		Milestone
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
COMS 2223- Computer Organization and Prog.	3		
COMS 3913- Advanced Discrete Structures	3		
Total hours	16	GPA	**COMS ADVISOR ASSIGNED**

Sample Schedule — Milestones/Notes

Semester 5	Hrs.	Grade	Semester 5
Science Sequence II (excluding BIOL)*	4		
MATH 3153- Applied Statistics I	3		
COMS 2703/2700- Networks and Architecture/LAB	3		
COMS 3213- Adv. Data Structures and Algorithm Design	3		
COMS 3233- Data Design and Implementation	3		
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		
COMS 4163- Personal Software Engineering	3		
COMS 4703/4700- Data Comms. and Networks/LAB	3		
Total hours	15	GPA	**APPLY FOR GRADUATION**

Semester 7	Hrs.		Semester 7
Social Sciences	3		
MATH 4003- Linear Algebra I	3		
COMS 3053- Implications of Technology on Society	3		
COMS 4033- Systems and Analysis Design I	3		
COMS 4103- Organization of Programming Languages	3		
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

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

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

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

**MATH Elective must be beyond Pre-Cal

Fine Arts and Humanities
ART 2123 Experiencing Art (ACTS=ARTA1003)
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

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

Communications Courses
COMM 1003 Intro to Speech Comm
COMM 2003 Public Speaking
COMM 2173 Business and Professional Speaking

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=ANTH1013)
ANTH 2003 Cultural Anthropology (ACTS=ANTH2013)
GEOG 2013 Regional Geography of the World (ACTS=GEOG2103)
AMST 2003 American Studies