ARKANSAS TECH UNIVERSITY

NAME:_____ T#:_____ DATE:_____

Rev. 3/22/17

2017-2018 Degree Map-Bachelor of Science in Cybersecurity

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:

#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		
CSEC 1113- Introduction to Networking	3		Milestone
Fine Arts & Humanities	3		
Total hours	17	GPA	

Semester 2	Hrs.		Semester 2
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#	
Social Sciences	3		
CSEC 1213- Wireless Security and Cellular Technologies	3		
COMS 2104- Foundations of Computer Prog. I	4	#	Milestone
Total hours	13	GPA	

Semester 3	Hrs.		Semester 3
ELEG 2134/2130- Digital Logic Design/ Lab	4		
COMS 2203- Foundations of Computer Prog II	3		
COMS 2733- Intro to Computer Forensics and Security	3		Milestone
COMS 2903-Discrete Structures	3		Milestone
CSEC 2113- Introduction to Information Systems	3		
Total hours	16	GPA	

Semester 4	Hrs.		Semester 4
COMM 2173- Business and Professional Speaking	3		No substitutions allowed
Science with Lab	4		
COMS 2213- Data Structures	3		Milestone
CSEC 2213- Forensics and Incident Responses	3		
CSEC 2223- Virtualization	3		
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

Sample Schedule — Milestones/Notes

Semester 5	Hrs.	Grade	Semester 5
Science with Lab	4		
MATH 3153- Applied Statistics I	3		
COMS 3213- Adv. Data Structures and Algorithm Design	3		
CSEC 3113- Assembly Programming	3		
CSEC 3123- Cyber Defense I	3		
Total hours	16	GPA	

Semester 6	Hrs.		Semester 6
Fine Arts & Humanities	3		
COMS 3703- Operating Systems	3		
CSEC 3223- Programming Embedded Systems	3		
CSEC 3233- Cyber Defense II	3		
CSEC 3243- Computer Architecture	3		
Total hours	15	GPA	**APPLY FOR GRADUATION**

Semester 7	Hrs.		Semester 7
Social Sciences	3		
CSEC 4123- Applied Cryptography	3		
CSEC 4133- Large Scale Distributed Systems	3		
CSEC 4143- Building Secure Software	3		
General Elective (3000-4000)	3		
Total hours	15	GPA	

Semester 8	Hrs.		Semester 8
CSEC 4213- Information Systems Risk Management	3		
CSEC 4233- Legal Issues in Cybersecurity	3		**Graduation Requirements:**
CSEC 4243/4240- Software Sec Analysis and Rev Eng/LAB	3		Min. hours 3000-4000 level courses: 40
CSEC 4293- Cybersecurity Capstone Project/Internship	3		No more than 4 PE activity hours
			Min. hours required:120
Total Hours	12	GPA	2.00+ GPA

General Electives: 3 hrs. (3000-4000 level)

Shading indicates courses that would directly apply to the AAS-CSEC degree.

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)

Science with Lab
BIOL 1014- Intro. to Biological Science (ACTS= BIOL1004)
BIOL/PHSC 1004- Principles of Environmental Science
GEOL 1014- Physical Geology (ACTS= GEOL 1114)
PHSC 1013/1021- Physical Sci/Lab (ACTS= PHSC 1004)

Social Sciences
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
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