

**2022-2023 Degree Map-Bachelor of Science in Information Technology (Track 2: Network and Security)**

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 Systems Analyst, IT Administrator, Webmaster

#Prerequisite Courses: ENGL 0303 \_\_\_\_\_ MATH 0803 \_\_\_\_\_ MATH 1003 \_\_\_\_\_ MATH 0903 \_\_\_\_\_ MATH 1110 \_\_\_\_\_

Sample Schedule	Milestones/Notes		
Semester 1	Hrs.	Grade	Semester 1
ENGL 1013- Comp I (ACTS=ENGL 1013)	3	#	
MATH 1113- College Algebra (ACTS= MATH 1103)	3	#	If ACT math 22 or higher, use as General Elective
Social Sciences	3		
TECH 1001- Orientation to the University	1		
CSEC 1113- Introduction to Networking	3		
COMS 1333- Web and Mobile Technologies	3		
<b>Total hours</b>	<b>16</b>	<b>GPA</b>	

Sample Schedule	Milestones/Notes		
Semester 2	Hrs.	Grade	Semester 2
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#	
MATH 2243- Calculus for Business (ACTS= MATH 2203)	3		Prereq: MATH ACT >22, or # in MATH 1113 or higher
COMS 1013- Programming I	3	#	Prereq: MATH 1113 or higher
COMS 1011- Programming 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
<b>Total hours</b>	<b>16</b>	<b>GPA</b>	
Semester 3	Hrs.	Grade	Semester 3
Science with Lab	4		
COMS 2203- Programming II	3	#	Milestone - Prereq: # COMS 1013 & # MATH 1113 or higher
COMM 2173- Business and Professional Speaking	3		COMM 2003 Public Speaking may sub
MATH 2703-Discrete Mathematics	3		Milestone - Prereq: # MATH 1113 or higher
CSEC 2213- Network Forensics and Incident Response	3		Prereq: CSEC 1113
<b>Total hours</b>	<b>16</b>	<b>GPA</b>	

Sample Schedule	Milestones/Notes		
Semester 4	Hrs.	Grade	Semester 4
ENGL 2053-Technical Writing (ACTS=ENGL 2023)	3		Prereq: ENGL 1023
COMS 2163- Scripting Languages	3		Prereq: COMS 1333 and 3-hr programming course
COMS 2213- Data Structures	3		Milestone - Prereq: MATH 2703 and # in COMS 2203
CSEC 2223- Virtualization	3		Spring Only Prereq: CSEC 1113
*General Elective	3		
<b>Total hours</b>	<b>15</b>	<b>GPA</b>	<b>COMS ADVISOR ASSIGNED</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 at <https://www.adhe.edu/students-parents/colleges-universities/transfer-info.-for-students/>

# indicates a "C" or higher is required

MATH 2914 may sub for MATH 2243.

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 2183 Honors Introduction to Film	<b>Science with Lab</b>
ENGL 2003 Introduction to World Literature (ACTS=ENGL2113)	BIOL 1014- Intro. to Biological Science (ACTS= BIOL1004)
ENGL 2013 Intro. to American Literature (ACTS=ENGL2653)	ENVS 1004- Principles of Environmental Science
ENGL 2023 Honors World Literature	GEOL 1014- Physical Geology (ACTS= GEOL 1114)
PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103)	PHSC 1013/1021- Physical Sci/Lab (ACTS= PHSC 1004)
PHIL 2043 Honors Introduction to Philosophy	
PHIL 2053 Introduction to Critical Thinking (ACTS=PHIL 1003)	

Sample Schedule	Milestones/Notes		
Semester 5	Hrs.	Grade	Semester 5
COMS 3053- Ethical Issues in Technology	3		Prereq: Junior standing in COMS
COMS 3233- Data Design and Implementation	3		Prereq: COMS 2203
COMS 3363- Server Administration	3		Prereq: COMS 2703 and 2713
CSEC 3123- Cyber Defense I	3		Prereq: CSEC 2213 and CSEC 2223
Approved Elective (3000-4000)	3		
<b>Total hours</b>	<b>15</b>	<b>GPA</b>	

Sample Schedule	Milestones/Notes		
Semester 6	Hrs.	Grade	Semester 6
Science with Lab	4		
COMS 3733- Data Center Operations	3		
COMS 3523- Human Factors in IT	3		Prereq: Jr standing
CSEC 3233- Cyber Defense II	3		Prereq: CSEC 3123
Approved Elective (3000-4000)	2		
<b>Total hours</b>	<b>15</b>	<b>GPA</b>	<b>APPLY FOR GRADUATION</b>

Sample Schedule	Milestones/Notes		
Semester 7	Hrs.	Grade	Semester 7
Fine Arts & Humanities	3		
US History/Government	3		
Social Sciences	3		
COMS 4063- IT Project Administration	3		Prereq: Jr standing
Approved Elective (3000-4000)	3		
<b>Total hours</b>	<b>15</b>	<b>GPA</b>	

Sample Schedule	Milestones/Notes		
Semester 8	Hrs.	Grade	Semester 8
Fine Arts & Humanities	3		<b>Graduation Requirements:</b> Min. hours 3000-4000 level courses: 40 No more than 4 PE activity hours Min. hours required:120 2.00+ GPA
COMS 4713- Networking Practicum	3		
COMS 4913- Capstone	3		
Approved Elective (3000-4000)	3		
<b>Total Hours</b>	<b>12</b>	<b>GPA</b>	

General Electives: 3 hours. Approved 3000-4000 Electives: 11 hours.

\*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.

**Shading indicates courses that would directly apply the AAS-ITAS degree.**

U.S. History & Government	Social Sciences
HIST 1503 World History to 1500 (ACTS=HIST1113)	ECON 2013 Principles of Economics II (ACTS=ECON2203)
HIST 1513 World History since 1500 (ACTS=HIST1123)	SOC 1003 Introductory Sociology (ACTS=SOCI1013)
HIST 1543 Honors World History 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)	FIN 2013 Personal Finance
ECON 2003 Principles of Economics I (ACTS=ECON2103)	LEAD 1003 Introduction to Leadership
ECON 2103 Honors Principles of Economics I	