

**2026-2027 Degree Map-Bachelor of Science in Information Technology: 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 <https://catalog.atu.edu/>

#Prerequisite Courses: ENGL 0303 \_\_\_ MATH 0803 \_\_\_ MATH 1003 \_\_\_ MATH 0903 \_\_\_ MATH 1113 \_\_\_ MATH 1110 \_\_\_

Possible Careers: Design, Implementation, and Securing of Networks and Systems. Network Administration, Network Engineering, Security Analysis and Consulting, Penetration Testing, Network Architecture

**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
TECH 1001-Orientation to the University	1		
CSEC 1003-Introduction to Cybersecurity	3		
CSEC 1113-Introduction to Networking	3		
	3		Create a LinkedIn profile
<b>Total hours</b>	<b>16</b>	<b>GPA</b>	

**Sample Schedule**

**Milestones/Notes**

Semester 5	Hrs.	Grade	Semester 5
Fine Arts & Humanities	3		
COMS 3233-Data Design and Implementation	3		Prereq: COMS 2203
COMS 3363-Server Administration	3		Fall Only Prereq: COMS 2703 and 2713
CSEC 3123-Cyber Defense I	3		Fall Only Prereq: CSEC 2213 and CSEC 2223
Approved Elective (3000-4000)	3		
			Do a mock interview utilizing Career Services
<b>Total hours</b>	<b>15</b>	<b>GPA</b>	

Semester 2	Hrs.	Grade	Semester 2
ENGL 1023-Comp II (ACTS= ENGL 1023)	3	#	
MATH 2243-Calculus for Business & Econ. (ACTS=MATH 2203)	3		MATH 2914 will sub
CSEC 2213-Network Forensics and Incident Response	3		Fall Only Prereq: CSEC 1113
COMS 1013/1011-Programming Foundations I and lab	4		Prereq: MATH 1113 or higher
COMS 2703-Computer Hardware & Architecture	3		Attend a career fair and explore part-time or volunteer options
<b>Total hours</b>	<b>16</b>	<b>GPA</b>	

Semester 6	Hrs.	Grade	Semester 6
Science with Lab	4		
COMS 3053-Ethical Issues in Technology	3		Prereq: Junior standing in COMS
COMS 3373-Data Center Operations	3		Spring Only
CSEC 3233-Cyber Defense II	3		Spring Only - Prereq: CSEC 3123
Approved Elective (3000-4000)	2		
<b>Total hours</b>	<b>15</b>	<b>GPA</b>	<b>APPLY FOR GRADUATION</b>

Semester 3	Hrs.	Grade	Semester 3
Science with Lab	4		
COMS 2203-Programming Foundations II	3		Prereq: C> COMS 1013 & C> MATH 1113 or higher
MATH 2703-Discrete Mathematics	3		Prereq: # MATH 1113 or higher
COMS 2323-Programming in Python	3		
COMS 2013-AI Fundamentals	3		Fall Only Prereq: CSEC 1113
<b>Total hours</b>	<b>16</b>	<b>GPA</b>	

Semester 7	Hrs.	Grade	Semester 7
Social Sciences	3		Finalize résumé, cover letter, and references
US History/Government	3		
COMS 3523-Human Factors in IT	3		Prereq: Jr standing
COMS 4913-Capstone I	3		
Approved Elective (3000-4000)	3		Complete check-in with Career Services
<b>Total hours</b>	<b>15</b>	<b>GPA</b>	

Semester 4	Hrs.	Grade	Semester 4
COMM 2173-Business and Professional Speaking	3		Prereq: ENGL 1023
COMS 2213-Data Structures	3		COMM 2003 Public Speaking may sub
CSEC 2223-Virtualization	3		Prereq: COMS 1333 and COMS 2203
STAT 2163-Intro to Statistical Methods	3		Prereq: MATH 2703 and C> in COMS 2203
Elective	3		
<b>Total hours</b>	<b>15</b>	<b>GPA</b>	<b>COMS ADVISOR ASSIGNED</b>

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 4923-Capstone II	3		
Social Sciences	3		
Approved Elective (3000-4000)	3		
<b>Total Hours</b>	<b>15</b>	<b>GPA</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 by searching keyword "ACTS" at <https://adhe.edu/>

General Electives: 0 hours. Approved 3000-4000 Electives: 11 hours.

# indicates a "C" or higher is required

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

**Consider adding Certificate of Proficiency in Computer Programming and Computer Networking**

<p><b>Fine Arts and Humanities</b>                  ART 2123 Experiencing Art (ACTS=ARTA1003)                  MUS 2003 Survey of Music History (ACTS=MUSC1003)                  TH 2273 Introduction to Theatre (ACTS=DRAM 1003)                  ENGL/JOUR 2173 Introduction to Film                  ENGL 2003 Introduction to World Literature (ACTS=ENGL2113)                  ENGL 2013 Intro. to American Literature (ACTS=ENGL2653)                  PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103)                  PHIL 2053 Introduction to Critical Thinking (ACTS=PHIL 1003)                  1013 from SPAN, FR, GER, JPN, CHIN, or LAT                  1023 from SPAN, FR, GER, JPN, CHIN, or LAT                  LEAD 2003 Ethics in Leadership</p>	<p><b>U.S. History &amp; Government</b>                  HIST 1903 Survey of American History                  HIST 2003 U.S. History to 1877 (ACTS=HIST2113)                  HIST 2013 U.S. History since 1877 (ACTS=HIST2123)                  POLS 2003 American Government (ACTS=PLSC2003)</p> <p><b>University Honors students should consult Course Catalog for appropriate Fine Arts/Humanities, US History/Government and Social Science options for University Honors Curriculum.</b></p>
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<p><b>Social Sciences</b>                  HIST 1503 World History to 1500 (ACTS=HIST1113)                  HIST 1513 World History since 1500 (ACTS=HIST1123)                  HIST 2003 U.S. History to 1877 (ACTS=HIST2113)                  HIST 2013 U.S. History since 1877 (ACTS=HIST2123)                  HIST 1903 Survey of American History                  POLS 2003 American Government (ACTS=PLSC2003)                  ECON 2003 Principles of Macroeconomics (ACTS=ECON2103)                  ECON 2013 Principles of Microeconomics (ACTS=ECON2203)                  SOC 1003 Introductory Sociology (ACTS=SOC11013)                  PSY 2003 General Psychology (ACTS=PSYC1103)</p>	<p><b>Science with Lab</b>                  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                  FIN 2013 Personal Finance                  LEAD 1003 Introduction to Leadership</p> <p><b>Science with Lab</b>                  BIOL 1014- Intro. to Biological Science (ACTS= BIOL1004)                  BIOL/PHSC 1004- Principles of Environmental Science                  GEOL 1014- Physical Geology (ACTS= GEOL 1114)</p>
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