

**2023-2024 Degree Map-Bachelor of Science in Information Technology (Track 1: Program, Database, and Web)**

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
TECH 1001- Orientation to the University	1		
CSEC 1003- Introduction to Cybersecurity	3		
CSEC 1113- Introduction to Networking	3		
COMS 1333- Web and Mobile Technologies	3		
<b>Total hours</b>	<b>16</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		Prereq: MATH ACT >22, or # in MATH 1113 or higher
Social Sciences	3		
COMS 1013- Programming Foundations I	3	#	Prereq: MATH 1113 or higher
COMS 1011- Programming Foundations I Lab	1	#	PASS/FAIL - Coreq: COMS 1013
COMS 2703- Computer Hardware & Architecture	3		
<b>Total hours</b>	<b>16</b>	<b>GPA</b>	

Semester 3	Hrs.	Grade	Semester 3
Science with Lab	4		
COMS 2203- Programming Foundations II	3	#	Milestone - Prereq: # COMS 1013 & # MATH 1113 or higher
ENGL 2053-Technical Writing (ACTS=ENGL 2023)	3		Prereq: ENGL 1023
MATH 2703-Discrete Mathematics	3		Milestone - Prereq: # MATH 1113 or higher
COMS 2163- Scripting Languages	3		Prereq: COMS 1333 and 3-hr programming course
<b>Total hours</b>	<b>16</b>	<b>GPA</b>	

Semester 4	Hrs.	Grade	Semester 4
COMM 2173- Business and Professional Speaking	3		COMM 2003 Public Speaking may sub
COMS 2213- Data Structures	3		Milestone - Prereq: MATH 2703 and # in COMS 2203
STAT 2163- Intro to Statistical Methods	3		Prereq: MATH 1003 or higher
COMS 2323- Programming in Python	3		Prereq: COMS 2203
COMS 2713- Survey of Operating Systems	3		COMS 3703 Adv. Operating Systems will sub
<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 by searching keyword "ACTS" at <https://adhe.edu/>

# indicates a "C" or higher is required                      MATH 2914 may sub for MATH 2243.

<b>Fine Arts and Humanities</b> ART 2123 Experiencing Art (ACTS=ARTA1003) MUS 2003 Introduction to Music (ACTS=MUSC1003) TH 2273 Introduction to Theatre (ACTS=DRAM 1003) ENGL/IOUR 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	<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)
<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)	

Sample Schedule	Milestones/Notes		
Semester 5	Hrs.	Grade	Semester 5
Science with Lab	4		
COMS 3523- Human Factors in IT	3		Prereq: Jr standing
COMS 3233- Data Design and Implementation	3		Prereq: COMS 2203
COMS 3413- App Development	3		Fall Only. Prereq: COMS 1333 & 2213
Approved Elective (3000-4000)	3		
<b>Total hours</b>	<b>15</b>	<b>GPA</b>	

Semester 6	Hrs.	Grade	Semester 6
Fine Arts & Humanities	3		
COMS 3163- Web Programming (Spring Only)	3		Prereq: COMS 1333, COMS 2213 & COMS 3233
COMS 3053- Ethical Issues in Technology	3		Prereq: Junior standing in COMS
COMS 3243- Data Mining	3		Spring Only . Prereq: COMS 3233 & 3-hr stats
Approved Elective (3000-4000)	3		
<b>Total hours</b>	<b>15</b>	<b>GPA</b>	<b>APPLY FOR GRADUATION</b>

Semester 7	Hrs.	Grade	Semester 7
Social Sciences	3		
US History/Government	3		
COMS 4033- Systems Analysis and Design	3		Fall Only- Prereq: COMS 3233
COMS 4913- Capstone I	3		
Approved Elective (3000-4000)	3		
<b>Total hours</b>	<b>15</b>	<b>GPA</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 4213- Database Administration (Spring Only)	3		
COMS 4923- Capstone II	3		
Approved Elective (3000-4000)	3		
<b>Total Hours</b>	<b>12</b>	<b>GPA</b>	

General Electives: 3 hours. Approved 3000-4000 Electives 12 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. Students should consider CP in Computer Programming and Computer Networking. See Catalog**

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=SOCI1013) PSY 2003 General Psychology (ACTS=PSYC1103)	<b>Social Sciences</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
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**University Honors students should consult Course Catalog for appropriate Fine Arts/Humanities, US History/Government and Social Science options for University Honors Curriculum.**