2020-2021 Degree Map-Bachelor of Science in Information Systems

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/

Employment Information: The program in information systems prepares students for careers as application programmers/analysts in a business environment and for further graduate work in information systems.

#Prerequisite Courses: ENGL 0303_____ MATH 0803_____ MATH 1003_____ MATH 0903_____ MATH 0900_____ MATH 1113_____ MATH 1110_____ MATH 1203_____ MATH 1914_____ COMS 1003_____ BUAD 2003_____

Sample Schedule | Milestones/Notes

Semester 1	Hrs.	Grade	Semester 1
ENGL 1013- Comp I (ACTS=ENGL 1013)	3	#	
Science with Lab	4		
MATH 2243- Calculus for Business (ACTS= MATH 2203)	3	#	Prereq: MATH ACT >22, or # in MATH 1113 or higher Milestone
TECH 1001- Orientation to the University	1		
COMS 1403- Orientation to Computing, Info, & Tech	3		(Coreq: COMS 1403 & MATH 1113 or higher) Milestone
COMS 1411- Computer and Information Science Lab	1		(Co-req: COMS 1403) Milestone
Total hours	15	GPA	

Semester 2	Hrs.		Semester 2
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#	
U.S. History/Government	3		
*ECON 2003- Principles of Economics I (ACTS= ECON 2103)	3		
*COMS 2003- Microcomputer Applications	3	#	Prereq: COMS 1003 or BUAD 2003
COMS 2104- Foundations of Computer Prog. I	4	#	Milestone - Prereq: COMS 1403/1411 & # in MATH 1113 or higher
Total hours	16	GPA	

Semester 3	Hrs.		Semester 3
ENGL 2053-Technical Writing (ACTS=ENGL 2023)	3		Prereq: ENGL 1023
*ACCT 2003/2000- Accounting Principles I/Lab (ACTS=2003)	3		Prereq: # in COMS or BUAD 2003 & # MATH 2243 or 2223
COMS 2203- Foundations of Computer Prog II	3		Milestone - Prereq: # COMS 2104 & # MATH 1113 or higher
COMS 2903- Discrete Structures	3		Milestone - Prereq: # COMS 2104 & # MATH 1113 or higher
COMS 2703- Computer Networks and Architecture	3		Milestone - Prereq: COMS 1403/1411
COMS 2701- Networking and Architecture Lab	1		Co-Req COMS 2703
Total hours	16	GPA	

Semester 4	Hrs.		Semester 4
Social Sciences	3		
*BLAW 2033- Legal Environment of Bus.(ACTS=BLAW 2003)	3		Pre-req: Sophomore standing
BUAD 2053- Business Statistics (ACTS=BUSI 2103)	3		Prereq: COMS or BUAD 2003 & MATH 2223 or higher
COMS 2213- Data Structures	3		Milestone - Prereq: COMS 2203 & 2903
COMS 3233- Database Design and Implementation	3		Prereq: COMS 2003 & 2203 & 2903
Total hours	15	GPA	**COMS ADVISOR ASSIGNED**

Sample Schedule | Milestones/Notes

Semester 5	Hrs.	Grade	Semester 5
COMM 2173- Business and Professional Speaking	3		No substitutions allowed
*MGMT 3003- Management and Organizational Behavior	3		Prereq: ACCT 2003, ECON 2003, BLAW 2033
COMS 3513- Administering and Using IBM Platform	3		Prereq: COMS 2104
COMS 3903- Systems Software and Architecture	3		Prereq: COMS 2703 & 2104
**General Elective (2000-4000 level)	2		
Total hours	14	GPA	

Semester 6	Hrs.		Semester 6
Science with Lab	4		
COMS 3243- Data Mining	3		Prereq: COMS 3233 and 3-hr stats
COMS 3503- Visual Programming	3		Prereq: COMS 2003 and 2213
COMS 4703- Data Comms. and Networks	3		Prereq: COMS 2703 & 2903; 2223 or 3903
COMS 4701- Data Comms. and Networks Lab	1		Co-Req COMS 4703
Total hours	14	GPA	**APPLY FOR GRADUATION**

Semester 7	Hrs.		Semester 7
Fine Arts & Humanities	3		
COMS 3053- Implications of Technology on Society	3		
COMS 3163- Web Programming	3		Prereq: COMS 2213 and 3233
COMS 4033- Systems Analysis and Design I	3		Prereq: COMS 3233
COMS 4133- Application Program Development	3		Prereq: COMS 2213
Total hours	15	GPA	

Semester 8	Hrs.		Semester 8
Fine Arts & Humanities	3		**Graduation Requirements:**
*MKT 3043- Principles of Marketing	3		Min. hours 3000-4000 level courses: 40
COMS 4043- Systems Analysis and Design II	3		No more than 4 PE activity hours
COMS 4053- Information Systems Res. Mgmt.	3		Min. hours required:120
**COMS Elective (2000-4000 level)	3		2.00+ GPA
Total Hours	15	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/

General Electives: 2 hours (2000-4000 level); COMS Electives: 3 hours (2000-4000 level)

**1000-level courses may only be taken to satisfy this requirement with the explicit permission of the Computer and Information Science Department Head.

# indicates a "C" or higher is required   *Courses that lead to minor in General Business

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 2183 Honors 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
PHIL 2053 Introduction to Critical Thinking (ACTS=PHIL 1003)

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)
ENVS 1004- Principles of Environmental Science
GEOL 1014- Physical Geology (ACTS= GEOL 1114)
PHSC 1013/1021- Physical Sci/Lab (ACTS= PHSC 1004)

HIST 1503 World History to 1500 (ACTS=HIST1113)
HIST 1513 World History since 1500 (ACTS=HIST1123)
HIST 1543 Honors World History 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