

#Prerequisite Courses: ENGL 0303 ENGL 0404

COMS 1411- Computer and Information Science Lab

Total hours

IAME:	T#:	DATE:
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MATH 0900

8-Semester Guaranteed Program

MATH 0903

Rev. 3/10/2017

2017-2018 Degree Map-Bachelor of Science in Computer Science Education

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: Computer Science Teacher

MATH 1003

Sample Schedule			Milestones/Notes		
Semester 1	Hrs.	Grade	Semester 1		
ENGL 1013- Comp I (ACTS=ENGL 1013)		3 #	Required for Admission to Stage II		
MATH 1113- College Algebra (ACTS= MATH 1103)		3 #	Required for Admission to Stage II		
TECH 1001- Orientation to the University		1			
COMS 1333- Web Publishing I		3 #	Prerequisite: COMS 1003 or BUAD 2003		
COMS 1403- Orientation to Computing, Info, & Tech		3 #			

14 GPA

READ 0103 MATH 0803

Sample Schedule		Milestones/Notes			
Semester 5	Hrs.	Grade	Semester 5		
SEED 3552- Child and Adolescent Development	2	#			
SEED 3702- Introduction to Educational Technology	2	#			
COMS 3053- Implications of Technology on Society	3	#			
COMS 3233- Database Design and Implementation	3	#	Prerequisites: COMS 2003, 2203, and 2903		
COMS 3903- Systems Software and Architecture	3	#	Prerequisites: COMS 2703 and 2104		
*Elective (BUAD 2053 or MATH 2163)	3		*Pre-requisite for COMS 3243		
Total hours	16	GPA			

MATH 1110

COMS 1003

Semester 2	Hrs.		Semester 2
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#	Required for Admission to Stage II
Social Sciences	3		
Fine Arts & Humanities	3		
COMS 2104- Foundations of Computer Programming I	4	#	Prerequisite: COMS 1403/1411
COMS 2703/2700- Networks and Architecture/LAB	3	#	Prerequisite: COMS 1403/1411
Total hours	16	GPA	

Semester 6	Hrs.		Semester 6
Fine Arts & Humanities	3		
SEED 4052- Educating Diverse and Exceptional Learners	2	#	Requires Stage II Admission
COMS 3243- Data Mining	3	#	Prerequisite: BUAD 2053/MATH 2163 and COMS 3233
COMS 3413- App Development	3	#	Prerequisites: COMS 1333 and COMS 2213
*Elective	4		
Total hours	15	GPA	APPLY FOR GRADUATION

Semester 3	Hrs.		Semester 3
SEED 2002- Education as a Profession	2	#	Required for Admission to Stage II
COMM 2173- Business and Professional Speaking	3		COMM 2003 may substitute/Req'd for Stage II
COMS 2203- Foundations of Computer Programming II	3	#	Prerequisite: COMS 2104
COMS 2903-Discrete Structures for Technical Majors	3	#	Prerequisite: COMS 2104
Science with Lab	4		
Total hours	15	GPA	

Semester 7	Hrs.		Semester 7
SEED 4556- Classroom Application of Educational Psychology	6	#	Requires Stage II Admission
COMS 4033- Systems Analysis and Design I	3	#	Prerequisite: COMS 3233
COMS 4813- Teaching Methods in Computer Science Ed	3	#	Requires Stage II Admission and
*Elective	3		75% of COMS courses completed, offered Fall
Total hours	15	GPA	APPLY FOR INTERNSHIP

Semester 4	Hrs.		Semester 4
Social Sciences	3		
U.S. History/Government	3		
Science with Lab	4		
COMS 2213- Data Structures	3	#	Prerequisites: COMS 2203, and COMS 2903
*Elective	3		2.70+ GPA REQUIRED
Total hours	16	GPA	COMS and SEED Advisor Assigned

Semester 8	Hrs.		Semester 8
SEED 4503- Seminar in Secondary Education	3	#	MUST BE ADMITTED
SEED 4809- Teaching in Elementary and Secondary School	9	#	TO INTERNSHIP
COMS 4801- Special Methods in Computer Science Ed	1	#	
			Graduation Requirements:
			Min. hours required:120
Total Hours	13	GPA	2.70+ GPA

Social Sciences

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 better is required

General Electives: 13 hours

*The elective courses placed in the degree should be used by students to take either COMS courses or courses in another area that the student would like to get certified (i.e. mathematics, business - both of which offer a minor)

U.S. History & Government Fine Arts and Humanities ART 2123 Experiencing Art (ACTS=ARTA1003) HIST 1903 Survey of American History HIST 2003 United States History to 1877 (ACTS=HIST2113) MUS 2003 Introduction to Music (ACTS=MUSC1003) TH 2273 Introduction to Theatre (ACTS=DRAM 1003) HIST 2043 Honors United States History to 1877 HIST 2013 United States History from 1877 (ACTS=HIST2123) ENGL 2173 Introduction to Film POLS 2003 American Government (ACTS=PLSC2003) JOUR 2173 Introduction to Film ENGL 2003 Introduction to World Literature (ACTS=ENGL2113) Science with Lab ENGL 2013 Intro. to American Literature (ACTS=ENGL2653) BIOL 1014- Intro. to Biological Science (ACTS= BIOL1004) BIOL/PHSC 1004- Principles of Environmental Science ENGL 2023 Honors World Literature PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103) GEOL 1014- Physical Geology (ACTS= GEOL 1114) PHIL 2043 Honors Introduction to Philosophy PHSC 1013/1021- Physical Sci/Lab (ACTS= PHSC 1004)

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