Bachelor of Science in Computer Science

2018-2019 Degree Plan

CORE CURRICULUM (See note below)	42 SCH	
	Grd	SCH
(010) COMMUNICATION		
ENGL 1301 Composition I		3
ENGL 1302 Composition II or **ENGL 2311** Technical Writing		3
(020) MATHEMATICS		
MATH 2313 Calculus I		3
(030) LIFE AND PHYSICAL SCIENCES		
BIOL 1306 or CHEM 1311 or GEOL 1301 or PHYS 1301 or PHYS 2325		3
BIOL 1307 or CHEM 1312 or GEOL 1302 or PHYS 1302 or PHYS 2326		3
(040) LANGUAGE, PHILOSOPHY, AND CULTURE		
Language/Philosophy /Culture		3
(050) CREATIVE ARTS		
Creative Arts		3
(060) AMERICAN HISTORY		
HIST 1301 US History to 1865		3
HIST 1302 US History from 1865		3
(070)GOVERNMENT/POLITICAL SCIENCE		
GOVT 2305 Federal Government		3
GOVT 2306 Texas Government		3
(080) SOCIAL AND BEHAVIORAL SCIENCE		
Social and Behavioral Science		3
(090) COMPONENT AREA OPTION		
MATH 2314 Calculus II		3
MATH 1342 Introductory Statistics		3
MATH 1042 Introductory Statistics Recitation		0

Departmental Requirements	7 SCH	
	Grd	SCH
BIOL 1106 or CHEM 1111 or GEOL 1101 or PHYS 1101 or PHYS 2125		1
BIOL 1107 CHEM 1112 or GEOL 1102 or PHYS 1102 or PHYS 2126		1
MATH 2113 Calculus I Lab		1
MATH 2114 Calculus II Lab		1
MATH 3340 Linear Algebra		3

UNIVERSITY REQUIREMENTS	4 SCH	
	Grd	SCH
UNIV 1101 Jaguar Tracks I		1
UNIV 2101 Jaguar Tracks II		1
CSCI 3101 Jaguar Tracks III Computer Science		1
CSCI 4101 Jaguar Tracks IV Computer Science		1

Note about core curriculum courses: Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements, and are recommended in the core to expedite degree completion.

Required Support Courses	18 SCH	
	Grd	SCH
CSCI 1136 Programming Fundamentals I Lab		1
CSCI 1137 Programming Fundamentals II Lab		1
CSCI 1336 Programming Fundamentals I		3
CSCI 1337 Programming Fundamentals II		3
CSCI 2136 Programming Fundamentals III Lab		1
CSCI 2322 Discrete Structures for Computing		3
CSCI 2325 Computer Org and Machine Language		3
CSCI 2336 Programming Fundamentals III		3
Major Courses	**34 SCH**	
CSCI 3304 Database Systems		3
CSCI 3321 Cyber Security or **CISA 4321** Information Security		3
CSCI 3343 Algorithms		3
CSCI 3344 Computer Architecture		3
CSCI 3362 Operating Systems		3
CSCI 3366 Programming Languages		3
CSCI 4106 Computer Networks Laboratory		1
CSCI 4306 Computer Networks		3
CSCI 4316 Software Engineering I		3
CSCI 4317 Software Engineering II		3
CSCI 4321 Computer Security		3
CSCI 4391 Senior Seminar		3
Major Electives	**15 SCH**	
Upper-Division CSCI Elective or Approved CISA Elective		3
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- **120 CREDIT HOURS REQUIRED FOR DEGREE**
- **30 CSCI UPPER- DIVISION HOURS REQUIRED FOR THIS DEGREE MUST BE COMPLETED AT A&M-SA TO SATISFY RESIDENCY REQUIREMENT**
- **MUST COMPLETE AT LEAST 40 HOURS OF MAJOR COURSES AND MAJOR ELECTIVES AT A&M-SA.**
- **MUST RECEIVE A GRADE OF "C" OR BETTER IN ALL MATH, CSCI, AND CISA COURSES AND THEIR ASSOCIATED PREREQUISITES FOR A SATISFACTORY PASSING GRADE. APPLIES TO TRANSFER COURSES ALSO.**
- **ACADEMIC CREDITS TRANSFERRED AS SUBSTITUTION COURSES MUST BE COMPLETED WITHIN PREVIOUS FIVE YEARS OF ADMISSION TO A&M-SA**
- **APPROVED UPPER-DIVISION CISA COURSES THAT CAN BE USED AS ELECTIVES FOR MAJORS AND MINORS ARE: CISA 4309, CISA 4323, CISA 4324, CISA 4332.**