

# BACHELOR OF SCIENCE IN COMPUTER SCIENCE

## 2019-2020 Degree Plan

<b>CORE CURRICULUM (See note below)</b>		<b>42 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
<b>(010) COMMUNICATION</b>			
ENGL 1301 Composition I		3	
ENGL 1302 Composition II or ENGL 2311 Technical Writing		3	
<b>(020) MATHEMATICS</b>			
MATH 2313 Calculus I		3	
<b>(030) LIFE AND PHYSICAL SCIENCES</b>			
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	
<b>(040) LANGUAGE, PHILOSOPHY, AND CULTURE</b>			
Language/Philosophy /Culture		3	
<b>(050) CREATIVE ARTS</b>			
Creative Arts		3	
<b>(060) AMERICAN HISTORY</b>			
American History		3	
American History		3	
<b>(070) GOVERNMENT/POLITICAL SCIENCE</b>			
Government/Political Science		3	
Government/Political Science		3	
<b>(080) SOCIAL AND BEHAVIORAL SCIENCE</b>			
Social and Behavioral Science		3	
<b>(090) COMPONENT AREA OPTION</b>			
MATH 2314 Calculus II		3	
MATH 1342 Introductory Statistics		3	
MATH 1042 Introductory Statistics Rec.		0	
<b>Departmental Requirements</b>		<b>7 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
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	
<b>UNIVERSITY REQUIREMENTS</b>		<b>4 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
UNIV 1101 Jaguar Tracks I		1	
UNIV 2101 Jaguar Tracks II		1	
CSCI 3101 Jaguar Tracks III Computer Sci		1	
CSCI 4101 Jaguar Tracks IV Computer Sci		1	

<b>Required Support Courses</b>		<b>18 SCH</b>	
	<b>Grd</b>	<b>SCH</b>	
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 2322 Discrete Structures for Computing		3	
CSCI 2325 Computer Organization		3	
CSCI 2436 Programming Fundamentals III		4	
<b>Major Courses</b>		<b>34 SCH</b>	
CSCI 3304 Database Systems		3	
CSCI 3321 Cyber Security or CISA 3321 Information Security		3	
CSCI 3343 Algorithms		3	
CSCI 3344 Computer Architecture		3	
CSCI 3362 Operating Systems		3	
CSCI 3366 Programming Languages		3	
CSCI 4406 Computer Networks		4	
CSCI 4316 Software Engineering I		3	
CSCI 4317 Software Engineering II		3	
CSCI 4321 Computer Security		3	
CSCI 4391 Senior Seminar		3	
<b>Major Electives</b>		<b>15 SCH</b>	
Upper-Division CSCI Elective or Approved CISA Elective		3	
Upper-Division CSCI Elective or Approved CISA Elective		3	
Upper-Division CSCI Elective or Approved CISA Elective		3	
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**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.

- **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.
- A MINIMUM AVERAGE GPA OF 2.25 MUST BE MAINTAINED IN ALL CISA OR CSCI CORE AND ELECTIVE COURSES TO REMAIN IN PROGRAM. 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 3309, CISA 4323, CISA 4324, CISA 4332.