Bachelor of Science in Water Resources Science & Technology

2019-2020 Degree Plan

CORE CURRICULUM (See note below)	42 SCH	
	Grd	SCH
(010) COMMUNICATION		
ENGL 1301 Composition I		**3**
ENGL 2311 Technical Writing		**3**
(020) MATHEMATICS		
MATH 1314 or 1316 or 2312 or 2313		**3**
(030) LIFE and PHYSICAL SCIENCES		
CHEM 1311 General Chemistry I		**3**
CHEM 1312 General Chemistry II		**3**
(040) LANGUAGE, PHILOSOPHY AND CULTURE		
Lang/Phil/Culture		**3**
(050) CREATIVE ARTS		
Creative Arts		**3**
(060) AMERICAN HISTORY		
HIST 1301 American History to 1865		**3**
HIST 1302 American History since 1865		**3**
(070) GOVERNMENT/POLITICAL SCIENCE		
GOVT 2305 Federal Government		**3**
GOVT 2306 Texas Government		**3**
(080) SOCIAL & BEHAVIORAL SCIENCES		
ECON 2301 Principles of Macroeconomics		**3**
(090) COMPONENT AREA OPTION		
SPCH 1315 Fundamentals of Public Speaking		**3**
MATH 1342 Introductory Statistics		**3**
REQUIRED SUPPORT COURSES	**21 SCH**	
	Grd	**SCH**
UNIV 1101 Jaguar Tracks 1		**1**
UNIV 2101 Jaguar Tracks 2		**1**
STEM 3101 Jaguar Tracks 3		**1**
STEM 4101 Jaguar Tracks 4		**1**
BIOL 1306 General Biology I		**3**
BIOL 1106 General Biology I Lab		**1**
BIOL 1307 General Biology II		**3**
BIOL 1107 General Biology II Lab		**1**
CHEM 1111 General Chemistry I laboratory		**1**
CHEM 1112 General Chemistry II laboratory		**1**
PHYS 1301 General Physics I		**3**
GEOL 1301 Earth Sciences I		**3**
GEOL 1101 Earth Sciences I Lab		**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.

120 credit hours required for degree
36 advanced credit hours required for degree
25% of courses must be taken at A&M-SA for degree

MAJOR (REQUIRED) COURSES 2.0 overall GPA for major	35 SCH	
	Grd	**SCH**
WATR 1301 Introduction to Water Treatment		**3**
WATR 1302 Introduction to Wastewater Treatment		**3**
CHEM 2371 Water and Wastewater Chemistry,		**3**
CHEM 2171 Water and Wastewater Chemistry Lab		**1**
POLS 3315 Water Laws, Rules and Policy		**3**
GEOL 3331 Hydrology		**3**
WATR 3320 Pollutants in Environmental Systems		**3**
WATR 3325 Aquatic Systems Science		**3**
WATR 3330 Green Systems for Wastewater Management		**3**
WATR 3340 Water Resources Science and Technology Internship, or WATR 4315 Advanced Wastewater Recycling Systems		**3**
WATR 4191 Senior Seminar		1
WATR 4310 Desalination and Emerging Technologies		3
WATR 4330 Water Management and Field Investigations		3
***Note: students intent on graduate school should take the suggested courses listed as electives		
ELECTIVES REQUIRED COURSES	**22 SCH**	
***As needed to complete 120 credit total hours. Must include 9 hours of upper division courses.**		
	Grd	**SCH**
GEOL 1302 Earth Sciences II		3
GEOL 1102 Earth Sciences II Lab		1
PHYS 1101 General Physics I Lab		1
PHYS 1302 General Physics II		3
PHYS 1102 General Physics II Lab		1
MATH 2313 Calculus I		3
BIOL 2421 General Microbiology		4
BIOL 3407 Ecology		4
CHEM 3331 Quantitative Analytics		3
CHEM 4332 Instrumental Analytics		3