

## BACHELOR OF SCIENCE WATER RESOURCES SCIENCE & TECHNOLOGY

2019-2020 Degree Plan

<b>CORE CURRICULUM (See note below)</b>	<b>42 SCH</b>	
	Grd	SCH
<b>(010) COMMUNICATION</b>		
ENGL 1301 Composition I		3
ENGL 1302 Composition II OR ENGL 2311 Technical Writing		3
<b>(020) MATHEMATICS</b>		
MATH 1314 or 1316 or 2312 or 2313		3
<b>(030) LIFE and PHYSICAL SCIENCES</b>		
CHEM 1311 General Chemistry I		3
CHEM 1312 General Chemistry II		3
<b>(040) LANGUAGE, PHILOSOPHY AND CULTURE</b>		
Lang/Phil/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 &amp; BEHAVIORAL SCIENCES</b>		
ECON 2301 Principles of Macroeconomics		3
<b>(090) COMPONENT AREA OPTION</b>		
SPCH 1315 Fundamentals of Public Speaking		3
MATH 1342 Introductory Statistics		3
<b>REQUIRED SUPPORT COURSES</b>		
	<b>21 SCH</b>	
	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.

<b>MAJOR (REQUIRED) COURSES</b>	<b>35 SCH</b>	
	Grd	SCH
<b>2.0 overall GPA for major</b>		
WATR 1301 Intro to Water Treatment		3
WATR 1302 Intro 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		
<b>ELECTIVES REQUIRED COURSES</b>		<b>22 SCH</b>
<b>*As needed to complete 120 credit total hours. Must include 9 hours of upper division courses.</b>		
	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

**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