WATER RESOURCES SCIENCE & TECHNOLOGY, BACHELOR OF SCIENCE

Requirements General Requirements

Code	Title	Credits
Core Curric	ulum	42
Required Su	upport Courses	21
Major (Required) Courses		35
Electives		22
Total Credit	ts	120

- · 36 advanced credit hours required for degree
- · 25% of courses must be taken at A&M-SA for degree
- Note: students intent on graduate school should take the suggested courses listed as electives.
- · CIP Code: 40.0605

All students must complete the University's Core Curriculum (https://catalog.tamusa.edu/undergraduate/academic-policies-procedures/core-curriculum/) and the specific requirements of the major. In some cases, a course that is required for a major may also be counted towards the Core Curriculum.

Code	Title	Credits
Core Curriculum ¹		
ENGL 1301	Composition I	3
ENGL 1302	Composition II	3
or ENGL 2311	Technical Writing	
Select one of the following:		3
MATH 1314	College Algebra	
MATH 1316	Trigonometry	
MATH 2312	Pre-Calculus	
MATH 2313	Calculus I	
CHEM 1311	General Chemistry I	3
CHEM 1312	General Chemistry II	3
Lang/Phil/Culture	2	3
Creative Arts		3
American History		3
American History		3
Government/Political Science		3
Government/Polit	tical Science	3
ECON 2301	Principles of Macroeconomics	3
SPCH 1315	Fundamentals of Public Speaking	3
MATH 1342	Introductory Statistics	3
Subtotal:		42
Required Support	Courses	
UNIV 1301	First Year Seminar	3
WATR 4181	Research	1
BIOL 1306	Gen Biology I-Attr Living Sys	3

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Subtotal:	Water Sust Use & Conserv Fully	22
WATR 4350 WATR 3317	Adv Topics in Water Sciences Water Sust Use & Conserv Polcy	
WATR 2350	Topics in Water Resources	
CHEM 4331	Instrumental Analysis	
CHEM 3331	Quantitative Analysis	
BIOL 3407	Ecology	
BIOL 2421	Introduction to Microbiology	
MATH 2313	Calculus I	
PHYS 1102	General Physics Lab II	
PHYS 1302	General Physics II	
PHYS 1101	General Physics Lab I	
GEOL 1102	Earth Sciences Lab II	
GEOL 1302	Earth Sciences II	
of upper division		22
Electives Suggest		
Subtotal:		35
WATR 4330	Water Management and Field Investigations	3
WATR 4310	Desalination and Emerging Technologies	3
WATR 4191	Water Resources Science and Technology Seminar	1
	Advanced Wastewater Recycling Systems	
WATR 3340	Water Resources Science and Technology Internship	3
WATR 3330	Green Systems for Environmental Remediation	3
WATR 3325	Aquatic System Science	3
WATR 3320	Pollutants in Environmental System	3
WATR 3331	Hydrology Pollutanta in Environmental System	3
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WATR 3312	Water & wastewater Lab Water Laws, Rules & Policy	3
CHEM 2371	Water & Wastewater Chemistry Water & Wastewater Lab	3 1
WATR 1302 CHEM 2371		3
WATR 1301 WATR 1302	Introduction to Wastewater Treatment	
WATR 1301	Introduction to Water and Wastewater Treatment	3
Subtotal: Major (Required)	Courses 2	21
GEOL 1101	Earth Sciences Lab I	1
GEOL 1301	Earth Sciences I	3
PHYS 1301	General Physics I	3
CHEM 1112	General Chemistry Lab II	1
CHEM 1111	General Chemistry Lab I	1
BIOL 1107	General Biology II - Lab	1
BIOL 1307	Gen Biology II-Biol Organisms	3
BIOL 1106	General Biology I Lab	1
DIOL 1100	Company I Dialogue I I ale	-

- 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.
- 2 2.0 overall GPA for major

Total Credits

120

Plan of Study

This suggested plan of study is intended to be used as a guide in conjunction with official degree requirements outlined in the catalog. While this plan demonstrates a course of study that covers eight semesters, each student's academic path is unique and your timeline may look different. Students should regularly consult with academic advisors as they plan their course schedules as course offerings may vary.

First	Year
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First Semester		Credits
WATR 1301	Introduction to Water and Wastewater	3
WATITIO	Treatment	5
CHEM 1311	General Chemistry I	3
CHEM 1111	General Chemistry Lab I	1
MATH 1314	College Algebra	3
or MATH 1316	3 ,	
or MATH 2312		
or MATH 2313		
UNIV 1301	First Year Seminar	3
ENGL 1301	Composition I	3
	Credits	16
Second Semester		-
WATR 1302	Introduction to Wastewater Treatment	3
CHEM 1312	General Chemistry II	3
CHEM 1112	General Chemistry Lab II	1
MATH 1342	Introductory Statistics	3
American History		3
Language/Philos	ophy/Culture	3
	Credits	16
Second Year		
First Semester		
CHEM 2371	Water & Wastewater Chemistry	3
CHEM 2171	Water & Wastewater Lab	1
BIOL 1306	Gen Biology I-Attr Living Sys	3
BIOL 1106	General Biology I Lab	1
PHYS 1301	General Physics I	3
GEOL 1301	Earth Sciences I	3
GEOL 1101	Earth Sciences Lab I	1
	Credits	15
Second Semester	r	
SPCH 1315	Fundamentals of Public Speaking (or equivalent)	3
ECON 2301	Principles of Macroeconomics	3
BIOL 1307	Gen Biology II-Biol Organisms	3
BIOL 1107	General Biology II - Lab	1
BIOL 2421	Introduction to Microbiology	4
ENGL 2311	Technical Writing	3
or ENGL 1302	or Composition II	
	Credits	17
Third Year		
First Semester		
GEOL 1302	Earth Sciences II	3
WATR 3325	Aquatic System Science	3
WATR 3331	Hydrology	3

Government/Polit	ical Science	3
American History		3
	Credits	15
Second Semester		
WATR 3330	Green Systems for Environmental Remediation	3
WATR 3312	Water Laws, Rules & Policy	3
CHEM 3331	Quantitative Analysis	3
BIOL 3407	Ecology	4
Government/Political Science		3
	Credits	16
Third Semester		
WATR 3340 or WATR 4315	Water Resources Science and Technology Internship or Advanced Wastewater Recycling Systems	3
	Credits	3
Fourth Year		_
First Semester		
WATR 4310	Desalination and Emerging Technologies	3
Elective	3 3	3
Elective		3
Creative Arts		3
	Credits	12
Second Semester		
WATR 4191	Water Resources Science and Technology Seminar	1
WATR 4330	Water Management and Field Investigations	3
Elective		3
Elective		3
	Credits	10
	Total Credits	120