

# DEPARTMENT OF NATURAL SCIENCES

## Overview

### Contact Information

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## Programs

- Biochemistry, Minor (<https://catalog.tamusa.edu/undergraduate/arts-sciences/natural-sciences/biochemistry-minor/>)
- Biology Concentration in Cell and Molecular Biology, Bachelor of Science (<https://catalog.tamusa.edu/undergraduate/arts-sciences/natural-sciences/biology-concentration-cell-molecular-ba/>)
- Biology Concentration in Ecology, Bachelor of Science (<https://catalog.tamusa.edu/undergraduate/arts-sciences/natural-sciences/biology-concentration-ecology-bs/>)
- Biology Concentration in Pre-Health Professions, Bachelor of Science (<https://catalog.tamusa.edu/undergraduate/arts-sciences/natural-sciences/biology-concentration-pre-health-bs/>)
- Biology Concentration in Zoology, Bachelor of Science (<https://catalog.tamusa.edu/undergraduate/arts-sciences/natural-sciences/biology-concentration-zoology-ba/>)
- Biology with Teacher Certification, Bachelor of Science (<https://catalog.tamusa.edu/undergraduate/arts-sciences/natural-sciences/biology-teacher-certification-ba/>)
- Biology, Bachelor of Arts (<https://catalog.tamusa.edu/undergraduate/arts-sciences/natural-sciences/biology-ba/>)
- Biology, Bachelor of Science (<https://catalog.tamusa.edu/undergraduate/arts-sciences/natural-sciences/biology-bs/>)
- Biology, Minor (<https://catalog.tamusa.edu/undergraduate/arts-sciences/natural-sciences/biology-minor/>)
- Chemistry with Teacher Certification, Bachelor of Science (<https://catalog.tamusa.edu/undergraduate/arts-sciences/natural-sciences/chemistry-teacher-certification-bs/>)
- Chemistry, Bachelor of Arts (<https://catalog.tamusa.edu/undergraduate/arts-sciences/natural-sciences/chemistry-ba/>)
- Chemistry, Bachelor of Science (<https://catalog.tamusa.edu/undergraduate/arts-sciences/natural-sciences/chemistry-bs/>)
- Chemistry, Minor (<https://catalog.tamusa.edu/undergraduate/arts-sciences/natural-sciences/chemistry-minor/>)
- Water Resources Science & Technology, Bachelor of Applied Arts and Sciences (<https://catalog.tamusa.edu/undergraduate/arts-sciences/computational-engineering-mathematical-sciences/water-resources-science-technology-baas/>)
- Water Resources Science & Technology, Bachelor of Science (<https://catalog.tamusa.edu/undergraduate/arts-sciences/computational-engineering-mathematical-sciences/water-resources-science-technology-bs/>)
- Water Resources Science and Technology, Minor (<https://catalog.tamusa.edu/undergraduate/arts-sciences/computational-engineering-mathematical-sciences/water-resources-science-technology-minor/>)

## Courses Biology

Code	Title	Credits
BIOL 1106	General Biology I Lab	1
BIOL 1107	General Biology II - Lab	1
BIOL 1306	Gen Biology I-Attr Living Sys	3
BIOL 1307	Gen Biology II-Biol Organisms	3
BIOL 1308	Intro to Life Sciences I	3
BIOL 1309	Intro to Life Sciences II	3
BIOL 2190	Independent Study	1
BIOL 2401	Anatomy & Physiology I	4
BIOL 2402	Anatomy & Physiology II	4
BIOL 2406	Intro to Plant Biology	4
BIOL 2410	Topics in Biology	4
BIOL 2411	Genetics	4
BIOL 2415	Statistics in Biology & Medicin	4
BIOL 2421	Introduction to Microbiology	4
BIOL 2431	Cell Biology	4
BIOL 2490	Topics in Biology	4
BIOL 3104	Research Experience in Biology	1
BIOL 3302	History of Biology	3
BIOL 3303	Animal Nutrition	3
BIOL 3304	Biotechniques	3
BIOL 3375	Applied Entomology	3
BIOL 3401	Invertebrate Zoology	4
BIOL 3402	Evolution	4
BIOL 3403	Plant Taxonomy	4
BIOL 3405	Vertebrate Zoology	4
BIOL 3406	Animal Behavior	4
BIOL 3407	Ecology	4
BIOL 3408	Animal Physiology	4
BIOL 3409	Cellular Physiology	4
BIOL 3410	Comparative Vertebrate Anatomy	4
BIOL 4101	Seminar-Integrative Biology	1
BIOL 4102	Seminar-Cell/Molecular Biology	1
BIOL 4103	Seminar-Zoology	1
BIOL 4104	Seminar-Ecology	1
BIOL 4106	Seminar in Health	1
BIOL 4120	Experiential Lab Instruction	1
BIOL 4301	Astrobiology	3
BIOL 4304	Undergrad Research in Biology	1-3
BIOL 4307	Conserv/Restoration Ecology	3
BIOL 4356	Topics in Biology	3
BIOL 4360	Internship in Biology	3
BIOL 4401	Molecular Biology	4
BIOL 4402	Developmental Biology	4
BIOL 4406	Bacteriology	4
BIOL 4407	Virology	4
BIOL 4408	Immunology	4
BIOL 4409	Biology of Disease Vectors	4
BIOL 4410	Topics in Biology	4

BIOL 4411	Appl Plant Physiology,Grwth/Dv	4
BIOL 4423	Wildlife Management	4
BIOL 4424	Field Biology	4
BIOL 4425	Ornithology	4
BIOL 4427	Herpetology	4
BIOL 4429	Mammalogy	4
BIOL 4430	Parasitology	4
BIOL 4431	Ichthyology	4
BIOL 4432	Primatology	4

## Chemistry

Code	Title	Credits
CHEM 1111	General Chemistry Lab I	1
CHEM 1112	General Chemistry Lab II	1
CHEM 1305	Introductory Chemistry I	3
CHEM 1311	General Chemistry I	3
CHEM 1312	General Chemistry II	3
CHEM 2123	Organic Chemistry I Lab	1
CHEM 2125	Organic Chemistry II Lab	1
CHEM 2171	Water & Wastewater Lab	1
CHEM 2314	Selected Topics-Chemistry	3
CHEM 2323	Organic Chemistry I	3
CHEM 2325	Organic Chemistry II	3
CHEM 2371	Water & Wastewater Chemistry	3
CHEM 3100	Physical Chem for Life Sci Lab	1
CHEM 3131	Quantitative Analysis Lab	1
CHEM 3156	Topics in Chemistry Laboratory	1
CHEM 3300	Physical Chem for Life Sci	3
CHEM 3304	Research in Chemistry	1-3
CHEM 3315	History of Chemistry/Study Abr	3
CHEM 3331	Quantitative Analysis	3
CHEM 3350	Advanced Organic Chemistry	3
CHEM 3365	Internship in Chemistry	1-3
CHEM 3451	Environmental Chemistry	3
CHEM 4101	Physical Chemistry I Lab	1
CHEM 4102	Physical Chemistry II Lab	1
CHEM 4131	Instrumental Analysis Lab	1
CHEM 4141	Biochemistry Laboratory	1
CHEM 4190	Inorganic Chemistry Laboratory	1
CHEM 4301	Physical Chemistry I	3
CHEM 4302	Physical Chemistry II	3
CHEM 4329	Selected Topics-Organic	3
CHEM 4331	Instrumental Analysis	3
CHEM 4339	Selected Topics-Analytical	3
CHEM 4341	Biochemistry I	3
CHEM 4342	Biochemistry II	3
CHEM 4349	Selected Topics-Biochemistry	3
CHEM 4356	Topics in Chemistry	3
CHEM 4359	Selected Topics-Computational	3
CHEM 4360	Separation Science	3
CHEM 4370	Enzymology	3
CHEM 4379	Selected Topics-Environ/Toxic	3

CHEM 4390	Inorganic Chemistry	3
CHEM 4420	Computational Chemistry	4

## Geology

Code	Title	Credits
GEOL 1101	Earth Sciences Lab I	1
GEOL 1102	Earth Sciences Lab II	1
GEOL 1301	Earth Sciences I	3
GEOL 1302	Earth Sciences II	3
GEOL 2390	Selected Topics: Geology	3
GEOL 4390	Advanced Topics: Geology	3

## Water Resources Science and Technology

Code	Title	Credits
WATR 1301	Introduction to Water Treatment	3
WATR 1302	Introduction to Wastewater Treatment	3
WATR 2350	Topics in Water Resources	3
WATR 3312	Water Laws, Rules & Policy	3
WATR 3315	Inst & Role in Wtr Resrce Mgmt	3
WATR 3317	Water Sust Use & Conserv Polcy	3
WATR 3320	Pollutants in Environmental System	3
WATR 3321	Water Policy Institution Inter	3
WATR 3325	Aquatic System Science	3
WATR 3330	Green Systems for Wastewater Management	3
WATR 3331	Hydrology	3
WATR 3340	Water Resources Science and Technology Internship	3
WATR 4181	Research	1
WATR 4191	Water Resources Science and Technology Seminar	1
WATR 4305	US-Mex Borderlands Wtr Issues	3
WATR 4310	Desalination and Emerging Technologies	3
WATR 4315	Advanced Wastewater Recycling Systems	3
WATR 4330	Water Management and Field Investigations	3
WATR 4340	Environmental Impact Assessmen	3
WATR 4350	Adv Topics in Water Sciences	3