

ACADEMIC MAP

Biology, BS - Grades 7-12 Life Science Education Concentration Teaching Certificate



| First Year | | | Third Year | | |
|---|---|--------------|---|---|----------|
| Fall | | | Fall | | |
| BIOL 1406 | Biology I | 4 | ENGL 3301 | Technical and Professional Writing | 3 |
| CHEM 1411 | General Chemistry I | 4 | SMTE 4270 | Science Education Topics I | 2 |
| ENGL 1301 | Writing and Rhetoric I | 3 | Organismal Animal Requirement | | |
| UNIV 1101 | University Seminar I | 1 | Organismal Plant Requirement | | |
| Social and Behavioral Sciences Core Requirement | | 3 | READ 3353 | Content Area Reading for Secondary | 3 |
| | | | or READ 3352 | | Students |
| | | | or Content Area Reading for Elementary Students | | |
| Hours | | 15 | EDUC 3211 | Culturally and Linguistically Responsive Teaching | 2 |
| Spring | | | Hours | | |
| BIOL 1407 | Biology II | 4 | 18 | | |
| CHEM 1412 | General Chemistry II | 4 | Spring | | |
| ENGL 1302 | Writing and Rhetoric II | 3 | BIOL 3428 | Principles of Ecology | 4 |
| UNIV 1102 | University Seminar II | 1 | Chemistry of Life/Cell Biology Requirement | | |
| MATH 2413 | Calculus I | 4 | SMTE 4320 | Secondary Science Laboratory Techniques | 3 |
| Hours | | 16 | SMTE 4217 | Secondary Approaches to the Life Sciences | 2 |
| Second Year | | | BIEM 4357 | Methods of Teaching English as a Second Language | 3 |
| Fall | | | Hours | | |
| BIOL 2371 | Principles of Evolution | 3-4 | 16 | | |
| or BIOL 2416 | or Genetics | | Summer | | |
| or BIOL 2421 | or Microbiology | | Upper Division Elective | | |
| CHEM 3411 | Organic Chemistry I | 4 | POLS 2305 | U.S. Government and Politics | 3 |
| ENGL 2316 | Literature and Culture | 3 | POLS 2306 | State and Local Government | 3 |
| or ENGL 2332 | or Literature of the Western World: From the Classics to the Renaissance | | Hours | | |
| or ENGL 2333 | or Literature of the Western World: From the Enlightenment to the Present | | 9 | | |
| EDUC 2211 | Foundations of Education | 2 | Fourth Year | | |
| Creative Arts Core Requirement | | 3 | Fall | | |
| American History Core Requirement | | 3 | EDUC 4305 | Seminar I | 3 |
| Hours | | 18-19 | IDET 3210 | Design and Development of Technology-Integrated Learning Environments | 2 |
| Spring | | | Hours | | |
| BIOL 2371 | Principles of Evolution | 3-4 | 5 | | |
| or BIOL 2416 | or Genetics | | Spring | | |
| or BIOL 2421 | or Microbiology | | EDUC 4694 | Clinical Teaching | 6 |
| BIOL 2401 | Anatomy and Physiology I | 4 | EDUC 4395 | Seminar II | 3 |
| BIOL 2371 | Principles of Evolution | 3-4 | Hours | | |
| or BIOL 2416 | or Genetics | | 9 | | |
| or BIOL 2421 | or Microbiology | | Total Hours | | |
| SPED 3310 | Individual Differences in Schools and Communities | 3 | 122-125 | | |
| American History Core Requirement | | 3 | Physics, BS | | |
| Hours | | 16-18 | | | |

This is not an official degree plan. It is a guideline for planning your courses. To access a copy of this academic map please visit tamucc.edu/academics/planning/academic-advising/

