

Biological Sciences B.S. - Secondary Certification (Grades 7 -12) Life Sciences

Secondary and All-Level Education

See for information: Secondary and All-Level Education (<http://coursecatalog.tamuc.edu/undergrad/colleges-and-departments/education-human-services/curriculum-instruction/secondary-and-all-level-education/>)

Core Curriculum Courses

See the Core Curriculum Requirements (<http://coursecatalog.tamuc.edu/undergrad/core-curriculum-requirements/>) 42

Required courses in the major

Biological Sciences (Adv)		13
BSC 1406	Introductory Biology I	4
BSC 1407	Introductory Biology II	4
BSC 111	Introduction to Biology	1
BSC 303	Cell Biology	4
BSC 304	GLB/Genetics	4
BSC 305	General Physiology	4
BSC 306	Applied Microbiology	4
BSC 307	Ecology	3
BSC 461	Biology for Mid School Teacher	3
CHEM 101	General Chemistry Tutorial I	1
CHEM 102	General Chemistry Tutorial II	1
CHEM 1311	General and Quantitative Chemistry I *	
CHEM 1111	General and Quantitative Chemistry Laboratory I	1
CHEM 1312	General and Quantitative Chemistry II *	
CHEM 1112	General and Quantitative Chemistry Laboratory II	1
ENVS 1301	Introduction to Environmental Science *	

Required support courses

IS 451	Hist Dev. Great Ideas in Sci	3
PSY 300	Learning Processes and Development	3

Teacher education courses

SED 330	Roles and Responsibilities of Professional STEM Educators	3
SED 331	Instructional Design for Student Engagement in STEM	3
SED 332	Project Based Learning in STEM	3
SED 400	Pedagogy and Classroom Management in Field-based Environments	3
SED 401	Technology Infused Curriculum and Assessment in Field-based Environments	3
SED 404	Secondary Teaching Practicum	3
SED 405	Secondary Residency in Teaching	3-6
RDG 380	Comprehension and Vocabulary in Middle and High Schools	3

Total Hours

120-123

* These courses should be used to satisfy the Core Curriculum Requirements.

A grade of "C" or higher must be earned in all courses in this Major with the exception of the Support Course a grade of "D" is acceptable.