The University of Texas at Tyler **2008-10**

COLLEGE OF ARTS AND SCIENCES

Bachelor of Science in Biology: Life Science Teacher Certification Option

The curriculum leading to the Bachelor of Science degree with a major in biology is designed to prepare students for positions in industry, state and federal government, and to continue their education in professional and graduate schools. Successful students will be highly motivated for achievement in science and mathematics as well as achievement in the liberal arts. Careers in science range from agriculture to zoology and from teaching and research to medicine. Majors in biology are prepared to pursue graduate or professional study in such fields as physiology, genetics, botany, microbiology, biotechnology, molecular biology, medicine, veterinary medicine, dentistry, pharmacy, and many others. The Life Science Teacher Certification Option outlined below will prepare the student for a career in life science education.

Recommended 4-Year Curriculum: Life Science Teacher Certification Option

FRESHMAN YEAR

First Semester			Credit Hours
BIOL	1306	General Biology I	3
BIOL	1106	General Biology I Lab	1
ENGL	1301	Grammar & Composition I	3
CHEM	1311	General Chemistry I	3
CHEM	1111	General Chemistry I Lab	1
MATH	2413	Calculus I	4
		Total Semester Hours	**15**

Second Semester			Credit Hours
BIOL	1307	General Biology II	3
BIOL	1107	General Biology II Lab	1
ENGL	1302	Grammar & Composition II	3
CHEM	1312	General Chemistry II	3
CHEM	1112	General Chemistry II Lab	1
MATH	2414	Calculus II	4
		Total Semester Hours	**15**

SOPHOMORE YEAR

First Semester			Credit Hours
BIOL	_____	**Group I or II	3
BIOL	_____	**Group I or II Lab	1
CHEM	3342	Organic Chemistry I	3
CHEM	3143	Organic Chemistry I Lab	1
PHYS	2325	University Physics I	3
PHYS	2125	University Physics I Lab	1
_____	_____	*Social Science	3
		Total Semester Hours	**15**

Second Semester			Credit Hours
BIOL	_____	**Group I or II	3
BIOL	_____	**Group I or II Lab	1
CHEM	3344	Organic Chemistry II	3
CHEM	3145	Organic Chemistry II Lab	1
ENGL	2322	or ENGL 2323 Literature	3
PHYS	2326	University Physics II	3
PHYS	2126	University Physics II Lab	1
		Total Semester Hours	**15**

JUNIOR YEAR

First Semester			Credit Hours
BIOL	3336	Ecology	3
BIOL	3137	Ecology Lab	1
BIOL	3332	Genetics	3
BIOL	3133	Genetics Lab	1
HIST	1301	U.S. History I	3
EDUC	3310	The School in the Social Setting	3
EDUC	3340	Educational Psychology	3
		Total Semester Hours	**17**

Second Semester			Credit Hours
BIOL	3334	Cell Biology	3
BIOL	3134	Cell Biology	1
_____	_____	*Visual/Performing Arts	3
HIST	1302	U.S. History II	3
EDSP	4350	Survey of Human Exceptionality	3
EDUC	4320	Teaching Skills	3
		Total Semester Hours	**16**

SENIOR YEAR

First Semester			Credit Hours
BIOL	4114	Biological Seminar I	1
BIOL	_____	**Group III	3
BIOL	_____	**Group III Lab	1
CHEM	4334	Biochemistry	3
CHEM	4135	Biochemistry Lab	1
POLS	2305	American Government	3
EDFB	4338	Literacy in the Content Areas	3
EDUC	4314	Teaching: Science	3
		Total Semester Hours	**18**

Second Semester			Credit Hours
BIOL	_____	**Group IV	3
POLS	2306	Texas Politics	3
_____	_____	*Humanities	3
EDUC	4057	Student Teaching Seminar	0
EDUC	4640	Student Teaching	6
		Total Semester Hours	**15**

Total hours must equal at least 126 hours

NOTES:

*See UT Tyler Core Curriculum for approved course(s).

**At least one lecture and laboratory from each of the following groups is required.

Group I: Plant Morphology, Plant Taxonomy; Group II: Vertebrate Natural History, Entomology, Ornithology, Invertebrate Zoology, Herpetology; Group III: Microbiology, Cell and Molecular Biology, Physiology, Comparative Vertebrate Biology; Group IV: Biogeography, Biological Evolution.