

The University of Texas at Tyler
College of Arts and Sciences
Bachelor of Science in Biology
2006-2008 Catalog

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.

Pre-Medicine and Pre-Dentistry Programs

The University of Texas at Tyler offers courses for pre-medical and pre-dental students. Most students seeking admission to medical, dental, or veterinarian school pursue one of the following baccalaureate degrees.

- The Bachelor of Science with a major in biology and strong supporting work in chemistry
- The Bachelor of Science with a major in chemistry and strong supporting work in biology

Student Affairs

Kappa Xi Chapter of Beta Beta Beta is an honor society in the Department of Biology.
 PreMed Club is for students interested in the medical sciences.

CORE CURRICULUM REQUIREMENTS

ENGLISH COMPOSITION/RHETORIC **6 HOURS**

ENGL 1301 Grammar and Composition I	<input type="checkbox"/> Transferred	
ENGL 1302 Grammar and Composition II	<input type="checkbox"/> Transferred	

WORLD OR EUROPEAN LITERATURE **3 HOURS**

ENGL 2322 English Literature to the 1780's	<input type="checkbox"/> Transferred	
ENGL 2323 English Literature from the 1780's to the present	<input type="checkbox"/> Transferred	
ENGL 2362 World Literature through The Renaissance	<input type="checkbox"/> Transferred	
ENGL 2363 World Literature since The Renaissance	<input type="checkbox"/> Transferred	

HUMANITIES **3 HOURS**

PHIL 1301 Introduction to Philosophy	<input type="checkbox"/> Transferred	
PHIL 2306 Introduction to Ethics	<input type="checkbox"/> Transferred	
ENGL 2310 Literacy Appreciation	<input type="checkbox"/> Transferred	
ENGL 2322 English Literature to the 1780's	<input type="checkbox"/> Transferred	
ENGL 2323 English Literature from the 1780's to the present	<input type="checkbox"/> Transferred	
ENGL 2350 American Literature Survey	<input type="checkbox"/> Transferred	
ENGL 2362 World Literature through The Renaissance	<input type="checkbox"/> Transferred	
ENGL 2363 World Literature since The Renaissance	<input type="checkbox"/> Transferred	
SPCM 1315 Fundamentals of Speech Communication	<input type="checkbox"/> Transferred	

SOCIAL AND BEHAVIORAL SCIENCES**3 HOURS**

ANTH 2346 Introduction to Anthropology	<input type="checkbox"/> Transferred	
ECON 1301 Introduction to Economics	<input type="checkbox"/> Transferred	
ECON 2301 Principles of Economics I	<input type="checkbox"/> Transferred	
ECON 2302 Principles of Economics II	<input type="checkbox"/> Transferred	
GEOG 1313 World Regional Geography	<input type="checkbox"/> Transferred	
HIST 2321 World Civilizations I	<input type="checkbox"/> Transferred	
HIST 2322 World Civilizations II	<input type="checkbox"/> Transferred	
JOUR 2307 Mass Media and Society	<input type="checkbox"/> Transferred	
SOCI 1301 Introduction to Sociology	<input type="checkbox"/> Transferred	
SOCI 1306 Contemporary Social Problems	<input type="checkbox"/> Transferred	
PSYC 1301 Introduction to Psychology	<input type="checkbox"/> Transferred	

FINE AND PERFORMING ARTS**3 HOURS**

MUSI 1306 Music Appreciation	<input type="checkbox"/> Transferred	
MUSI 2301 Music of the Americas	<input type="checkbox"/> Transferred	
THTR 1301 The Theater: Plays in Performance	<input type="checkbox"/> Transferred	
THTR 1356 The Cinema: Films and Performers	<input type="checkbox"/> Transferred	
ART 1301 Introduction to Art	<input type="checkbox"/> Transferred	
ART 2303 Art History Survey I	<input type="checkbox"/> Transferred	
ART 2304 Art History Survey II	<input type="checkbox"/> Transferred	

UNITED STATES HISTORY**6 HOURS**

HIST 1301 United States History I	<input type="checkbox"/> Transferred	
HIST 1302 United States History II	<input type="checkbox"/> Transferred	

UNITED STATES AND TEXAS GOVERNMENT**6 HOURS**

POLS 2305 Introductory American Government	<input type="checkbox"/> Transferred	
POLS 2306 Introductory Texas Politics	<input type="checkbox"/> Transferred	

LABORATORY SCIENCES (FOR CORE AND BIOLOGY REQUIREMENTS)**8 HOURS**

BIOL 1306 General Biology I	<input type="checkbox"/> Transferred	
BIOL 1106 General Biology I Laboratory	<input type="checkbox"/> Transferred	
BIOL 1307 General Biology II	<input type="checkbox"/> Transferred	
BIOL 1107 General Biology II Laboratory	<input type="checkbox"/> Transferred	

MATHEMATICS (FOR CORE AND BIOLOGY REQUIREMENTS)**8 HOURS**

MATH 2413 Calculus I	<input type="checkbox"/> Transferred	
MATH 2414 Calculus II	<input type="checkbox"/> Transferred	

INSTITUTIONAL OPTION***3 HOURS**

UNIV 1300 Freshman Seminar		
PSYC 1349 Critical Thinking		

* Enrolling freshmen with fewer than 30 hours must take UNIV 1300; students transferring with 30 or more hours must take UNIV 1300 or PSYC 1349.

TOTAL LOWER DIVISION HOURS FROM CORE CURRICULUM**47 HOURS****BIOLOGY CURRICULUM REQUIREMENTS****LOWER DIVISION CHEMISTRY (MAY BE PART OF CORE)****8 HOURS**

CHEM 1311 General Chemistry I	<input type="checkbox"/> Transferred	
CHEM 1111 General Chemistry I Laboratory	<input type="checkbox"/> Transferred	
CHEM 1312 General Chemistry II	<input type="checkbox"/> Transferred	
CHEM 1112 General Chemistry II Laboratory	<input type="checkbox"/> Transferred	

MATHEMATICS (MAY BE PART OF CORE)**8 HOURS**

MATH 2413 Calculus I	<input type="checkbox"/> Transferred	
MATH 2414 Calculus II	<input type="checkbox"/> Transferred	

PHYSICS (MAY BE PART OF CORE)**8 HOURS**

PHYS 2325 University Physics I	<input type="checkbox"/> Transferred	
PHYS 2125 University Physics I Laboratory	<input type="checkbox"/> Transferred	
PHYS 2326 University Physics II	<input type="checkbox"/> Transferred	
PHYS 2126 University Physics II Laboratory	<input type="checkbox"/> Transferred	

BIOLOGY CORE CURRICULUM**22 HOURS**

BIOL 1306 General Biology I	<input type="checkbox"/> Transferred	
BIOL 1106 General Biology Laboratory I	<input type="checkbox"/> Transferred	
BIOL 1307 General Biology II	<input type="checkbox"/> Transferred	
BIOL 1107 General Biology Laboratory II	<input type="checkbox"/> Transferred	
BIOL 3332 Genetics	<input type="checkbox"/> Transferred	
BIOL 3133 Genetics Laboratory	<input type="checkbox"/> Transferred	
BIOL 3336 Ecology	<input type="checkbox"/> Transferred	
BIOL 3137 Ecology Laboratory	<input type="checkbox"/> Transferred	
BIOL 3334 Cell Biology	<input type="checkbox"/> Transferred	
BIOL 3134 Cell Biology Laboratory	<input type="checkbox"/> Transferred	
BIOL 4114 Seminar I	<input type="checkbox"/> Transferred	
BIOL 4115 Seminar II	<input type="checkbox"/> Transferred	

UPPER DIVISION BIOLOGY (ONE LECTURE/LAB COURSE FROM EACH GROUP)**19 HOURS****GROUP I (4 HOURS)**

BIOL 3345 Plant Morphology	<input type="checkbox"/> Transferred	
BIOL 3146 Plant Morphology Laboratory	<input type="checkbox"/> Transferred	
BIOL 3147 Plant Taxonomy	<input type="checkbox"/> Transferred	
BIOL 3348 Plant Taxonomy Laboratory	<input type="checkbox"/> Transferred	

GROUP II (4 HOURS)

BIOL 4330 Herpetology	<input type="checkbox"/> Transferred	
BIOL 4131 Herpetology Laboratory	<input type="checkbox"/> Transferred	
BIOL 4331 Entomology	<input type="checkbox"/> Transferred	
BIOL 4132 Entomology Laboratory	<input type="checkbox"/> Transferred	
BIOL 4335 Vertebrate Natural History	<input type="checkbox"/> Transferred	
BIOL 4136 Vertebrate Natural History Laboratory	<input type="checkbox"/> Transferred	
BIOL 4339 Invertebrate Zoology	<input type="checkbox"/> Transferred	
BIOL 4140 Invertebrate Zoology Laboratory	<input type="checkbox"/> Transferred	
BIOL 4340 Ornithology	<input type="checkbox"/> Transferred	
BIOL 4141 Ornithology Laboratory	<input type="checkbox"/> Transferred	

GROUP III (4 HOURS)

BIOL 4300 Microbiology	<input type="checkbox"/> Transferred	
BIOL 4101 Microbiology Laboratory	<input type="checkbox"/> Transferred	
BIOL 4302 Cell and Molecular Biology	<input type="checkbox"/> Transferred	
BIOL 4102 Cell and Molecular Biology Laboratory	<input type="checkbox"/> Transferred	

GROUP IV (4 HOURS)

BIOL 3343 Physiology	<input type="checkbox"/> Transferred	
BIOL 3144 Physiology Laboratory	<input type="checkbox"/> Transferred	
BIOL 3335 Comparative Vertebrate Biology	<input type="checkbox"/> Transferred	
BIOL 3135 Comparative Vertebrate Biology Laboratory	<input type="checkbox"/> Transferred	

GROUP V (3 HOURS)

BIOL 3338 Biological Evolution	<input type="checkbox"/> Transferred	
BIOL 4304 Biogeography	<input type="checkbox"/> Transferred	

UPPER DIVISION CHEMISTRY**12 HOURS**

CHEM 3342 Organic Chemistry I	<input type="checkbox"/> Transferred	
CHEM 3143 Organic Chemistry I Laboratory	<input type="checkbox"/> Transferred	
CHEM 3344 Organic Chemistry II	<input type="checkbox"/> Transferred	
CHEM 3145 Organic Chemistry II Laboratory	<input type="checkbox"/> Transferred	
CHEM 4334 Biochemistry	<input type="checkbox"/> Transferred	
CHEM 4135 Biochemistry Laboratory	<input type="checkbox"/> Transferred	

ADDITIONAL CHEMISTRY/MATH**3-4 HOURS**

CHEM 3111 Analytical Chemistry Laboratory	<input type="checkbox"/> Transferred	
OR		
MATH 1342 Statistics	<input type="checkbox"/> Transferred	

UPPER DIVISION ELECTIVES

	<input type="checkbox"/> Transferred	
	<input type="checkbox"/> Transferred	
	<input type="checkbox"/> Transferred	
	<input type="checkbox"/> Transferred	
	<input type="checkbox"/> Transferred	

UT Tyler Degree Requirements

- Complete Core Curriculum Requirements (47 hours)
- Complete 124 total hours, 42 upper division hours, 30 hours at UTT (last 24 hours completed at UT Tyler)
- No grade lower than a "C" is acceptable for students completing their Core at UT Tyler.
- Transfer students having successfully completed 30 semester hours or more at a regionally accredited institution must have earned a minimum grade point average of 2.0 (on a 4.00 scale) on all college/university coursework attempted.

UT Tyler Biology Degree Requirements

- Satisfy UT Tyler Degree Requirements
- 41 hours of Biology, at least 33 upper division, 12 upper division hours at UT Tyler
- Minor in Biology - 20 hours of biology, 12 of which must be upper division (selections approved by advisor)

This is an unofficial degree plan. Call 903-566-7402 to make an appointment with your advisor to have an official degree plan completed.

FACULTY

Ali Azghani, Associate Professor of Biology

B.S., University of Tabriz; M.S., Ph.D., Texas Women's University

Blake Bextine, Assistant Professor of Biology

B.A., University of Northern Iowa; M.S., Texas Tech University; Ph.D., Oklahoma State University

Cliff Boucher, Assistant Professor of Biology

B.S., Austin College; Ph.D., University of Michigan

Neil B. Ford, Professor of Biology

B.S., University of Kansas; M.S., University of Oklahoma; Ph.D., Miami University

Ronald L. Gutberlet, Jr., Associate Professor of Biology

B.A., University of Maryland; M.S., Ph.D., The University of Texas at Arlington

Lee Ann Harbison, Lecturer in Biology

B.A., Trinity University; M.S., University of Northern Colorado; Ph.D., Northern Arizona University

Suneeti Jog, Assistant Professor of Biology

B.Sc., M.Sc., University of Bombay, India; Ph.D., Cleveland State University

Don W. Killebrew, Professor of Biology

B.S., Lamar University; Ph.D., Texas A&M University

James F. Koukl, Associate Professor of Biology

B.S., Northern Illinois University; M.S., Ph.D., University of Missouri-Columbia

Darrell W. Pogue, Associate Professor of Biology

B.S., East Central University; M.S., Ph.D., University of Oklahoma

Suzanne Pundt, Senior Lecturer in Biology

B.S., Texas A&M University; M.S., The University of Texas at Tyler

(Revised 06/15/06, Darrell W. Pogue)