

## COLLEGE OF ARTS AND SCIENCES

## Bachelor of Science in Biology

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.

## Recommended 4-Year Curriculum

## FRESHMAN YEAR

First Semester			Credit Hours	Second Semester			Credit Hours
BIOL	1306	General Biology I	3	BIOL	1307	General Biology II	3
BIOL	1106	General Biology I Lab	1	BIOL	1107	General Biology II Lab	1
ENGL	1301	Grammar & Composition I	3	ENGL	1302	Grammar & Composition II	3
CHEM	1311	General Chemistry I	3	CHEM	1312	General Chemistry II	3
CHEM	1111	General Chemistry I Lab	1	CHEM	1112	General Chemistry II Lab	1
_____	_____	Free Elective	<u>3</u>	_____	_____	*Social Science	<u>3</u>
<b>Total Semester Hours</b>			<b>14</b>	<b>Total Semester Hours</b>			<b>14</b>

## SOPHOMORE YEAR

First Semester			Credit Hours	Second Semester			Credit Hours
MATH	2413	Calculus I	4	MATH	2414	Calculus II	4
BIOL	_____	**Group I or II	3	BIOL	_____	**Group I or II	3
BIOL	_____	**Group I or II Lab	1	BIOL	_____	**Group I or II Lab	1
CHEM	3342	Organic Chemistry I	3	CHEM	3344	Organic Chemistry II	3
CHEM	3143	Organic Chemistry I Lab	1	CHEM	3145	Organic Chemistry II Lab	1
MATH	1342	Statistics or CHEM 3310/3111	<u>3-4</u>	ENGL	2322	or ENGL 2323 Literature	<u>3</u>
<b>Total Semester Hours</b>			<b>15-16</b>	<b>Total Semester Hours</b>			<b>15</b>

## JUNIOR YEAR

First Semester			Credit Hours	Second Semester			Credit Hours
BIOL	3336	Ecology	3	_____	_____	Free Elective	3
BIOL	3137	Ecology Lab	1	BIOL	3334	Cell Biology	3
BIOL	3332	Genetics	3	BIOL	3134	Cell Biology	1
BIOL	3133	Genetics Lab	1	PHYS	2326	University Physics II	3
PHYS	2325	University Physics I	3	PHYS	2126	University Physics II Lab	1
PHYS	2125	University Physics I Lab	1	HIST	1302	U.S. History II	<u>3</u>
HIST	1301	U.S. History I	<u>3</u>	<b>Total Semester Hours</b>			<b>14</b>
<b>Total Semester Hours</b>			<b>15</b>				

## SENIOR YEAR

First Semester			Credit Hours	Second Semester			Credit Hours
BIOL	4114	Biological Seminar I	1	BIOL	4115	Biological Seminar II	1
BIOL	_____	***Group III	3	_____	_____	*Humanities	3
BIOL	_____	***Group III Lab	1	POLS	2306	Texas Politics	3
BIOL	_____	***Group V	3	BIOL	_____	***Group IV	3
POLS	2305	American Government	3	BIOL	_____	***Group IV Lab	1
_____	_____	*Visual/Performing Arts	3	_____	_____	Free Elective	<u>3-4</u>
CHEM	4334	Biochemistry	3	<b>Total Semester Hours</b>			<b>14-15</b>
CHEM	4135	Biochemistry Lab	<u>1</u>				
<b>Total Semester Hours</b>			<b>18</b>				

Total hours must equal at least 120 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; Group IV: Physiology, Comparative Vertebrate Biology; Group V: Biogeography, Biological Evolution.

## **Faculty**

Troy Anderson, Assistant Professor of Biology

B.S., M.S., Wichita State University; Ph. D., Kansas State University

Ali Azghani, Associate Professor of Biology

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

Jessica Coleman, Lecturer in Biology

B.S., M.S., The University of Texas at Tyler

Neil B. Ford, Professor of Biology

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

Suneeti Jog, Assistant Professor of Biology

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

Don W. Killebrew, Chair and 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

John S. Placyk, Assistant Professor of Biology

B. S., The Richard Stockton College of New Jersey; M. S., Northern Michigan University; Ph. D., University of Tennessee

Suzanne Pundt, Senior Lecturer in Biology

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

Lance R. Williams, Associate Professor of Biology

B. S., University of Oklahoma; M. S., Oklahoma State University; Ph. D., Mississippi State University

## **Corporations That Recruit Graduates from UT Tyler**

- The University of Texas Southwestern School of Medicine
- The University of Texas Medical Branch at Galveston
- The University of Texas Health Science Center at Tyler
- University of Michigan
- Baylor School of Medicine
- Tyler Independent School District

## **Student and Employer Comments**

"The biology department at UTT is one of the true gems in The University of Texas System and one of the best kept secrets in East Texas." Lynn McCutchen and Laney Mobley, 1996

"The course in Electron Microscopy was one of the most exciting and challenging courses that I experienced during my coursework at the University. It was personally rewarding for me." Katherine Patterson, 1997

"I appreciated the various applications of genetics to medicine ....I truly know that this experience has made me more prepared for future learning endeavors." Alfred D. Llave, 1999

"One of the best things about UT Tyler is the personal interest professors show in their students." Evan Howard, 2006