

THE UNIVERSITY OF TEXAS AT TYLER
BACHELOR OF SCIENCE IN BIOLOGY
2018-2019 CATALOG
UNIVERSITY CORE CURRICULUM REQUIREMENTS

AMERICAN HISTORY

6 Hours

HIST 1301 United States History I	Fall, Spring	
HIST 1302 United States History II	Fall, Spring	
HIST 1303 History of Technology and Innovation in US society		

COMMUNICATIONS

6 Hours

ENGL 1301 College Composition I	Fall, Spring, Summer	
ENGL 1302 College Com II	Fall, Spring, Summer	
ENGL 1303 Basic Creative Writing		
ENGL 2322 Technical and Business Writing		
HNRS 1352 World, Text, and Image II		
SPCM 1315 Fundamentals of Speech Communication		

CREATIVE ARTS

3 Hours

ART 1301 Introduction to Art	Fall, Spring	
ART 1306 Art and Film		
ART 2303 Art History Survey I		
ART 2304 Art History Survey II		
HNRS 2352 World, Text and Image IV		
MUSI 1301 Music Fundamentals		
MUSI 1306 Music Appreciation		
MUSI 2301 Music of the Americas		
MUSI 2308 Music Literature		
THTR 1301 The Theater: Plays in Performance		
THTR 1356 The Cinema: Films and Performers		

GOVERNMENT/POLITICAL SCIENCE

6 Hours

POLS 2305 Introductory American Government	Fall, Spring	
POLS 2306 Introductory Texas Politics	Fall	

LANGUAGE, PHILOSOPHY & CULTURE

3 Hours

ENGL 2310 Literacy Appreciation	Spring	
ENGL 2322 English Literature to the 1780's	Fall, Spring	
ENGL 2323 English Literature from 1780 to Present	Fall, Spring, Summer	
ENGL 2350 American Literature Survey	Fall, Spring	
ENGL 2362 World Literature through The Renaissance	Fall, Spring	
ENGL 2363 World Literature since Renaissance	Fall, Spring, Summer	
HNRS 1351 World, Text and Image I		
PHIL 1301 Introduction to Philosophy	Fall, Spring	
PHIL 1304 Introduction of World Religions		
PHIL 2303 Introduction to Logic		
PHIL 2306 Introduction to Ethics	Fall, Spring	

LIFE AND PHYSICAL SCIENCES (*FOR CORE AND BIOLOGY REQUIREMENTS)**6 Hours**

BIOL 1306 / 1106 General Biology I and Lab*	Fall, Spring, Summer	
BIOL 1307 / 1107 General Biology II and Lab*	Fall, Spring, Summer	
BIOL 1301 Introduction to Life Science II	Fall	
BIOL 1302 Introduction to Life Science II		
BIOL 1320 Zombie Apocalypse: Biology of Disease		
BIOL 1330 Biology in Pop Culture		
CHEM 1305 Introductory Chemistry I		
CHEM 1311 General Chemistry I		
CHEM 1312 General Chemistry II		
CHEM 1320 Forensic Chemistry I		
CHEM 1321 Forensic Chemistry II		
CHEM 1330 Culinary Chemistry		
CHEM 1340 The Chemistry of Luxury		
CHEM 1350 Chemistry in Action		
PHYS 1301 College Physic I		
PHYS 1302 College Physic II		
PHYS 1303 Introduction to Astronomy		
PHYS 2325 University Physics I		
PHYS 2326 University Physics II		

MATHEMATICS**3 Hours**

HNRS 2413 Honors Calculus I		
HNRS 2414 Honors Calculus II		
MATH 1316 Trigonometry		
MATH 1324 Mathematics for Business and Economics I		
MATH 1325 Mathematics for Business and Economics II		
MATH 1332 Math for Liberal Arts Majors I		
MATH 1333 Math for Liberal Arts Majors II		
MATH 1342 Statistics		
MATH 1343 Statistics II		
MATH 1350 Concepts of Modern Mathematics I		
MATH 2312 Pre-calculus		
MATH 2413 Calculus I		
MATH 2414 Calculus II		

SOCIAL AND BEHAVIORAL SCIENCE**3 Hours**

ANTH 2346 Introduction to Anthropology	Fall	
ECON 1301 Introduction to Economics		
ECON 2301 Principles of Macroeconomics I	Fall, Spring, Summer	
ECON 2302 Principles of Macroeconomics II	Fall, Spring	
GEOG 1313 World Regional Geography		
HIST 2321 World Civilizations I		
HIST 2322 World Civilizations II		
PSYC 1301 Introduction to Psychology	Fall, Spring, Summer	
SOCI 1301 Introduction to Sociology	Fall	

COMPONENT AREA OPTION 1 – HUMAN EXPRESSION**3 Hours**

ENGL 1301 College Composition I		
ENGL 1302 College Composition II		
ENGL 1303 Basic Creative Writing		
ENGL 2310 Literacy Appreciation	Spring	
ENGL 2322 English Literature to the 1780's	Fall, Spring	
ENGL 2323 English Literature from 1780 to Present	Fall, Spring, Summer	
ENGL 2350 American Literature Survey	Fall, Spring	
ENGL 2362 World Literature through The Renaissance	Fall, Spring	
ENGL 2363 World Literature since Renaissance	Fall, Spring, Summer	
GATE 2301 Global Service Learning: Values and Action		
HNRS 1351 World, Text, and Image I		
HNRS 2351 World, Text, and Image III		
MCOM 2307 Mass Media and Society		
SPCM 1311 Introduction to Communication Studies		

COMPONENT AREA OPTION 2 – STEM**3 Hours**

ALHS 1315 Introduction to Nutrition		
BIOL 1306 / 1106 General Biology I and Lab*		
BIOL 1307 / 1107 General Biology II and Lab*		
BIOL 1301 Introduction to Life Science II		
BIOL 1302 Introduction to Life Science II		
BIOL 1320 Zombie Apocalypse: Biology of Disease		
BIOL 1330 Biology in Pop Culture		
BIOL 1340 Genetics and Society		
BIOL 1350 Science and Pseudoscience		
BIOL 1360 Nature, the Environment, and Ecology		
BIOL 2320 / 2120 Introduction to Microbiology		
CHEM 1305 / 1105 Introduction to Chemistry I		
CHEM 1311 / 1111 General Chemistry I		
CHEM 1312 / 1112 General Chemistry II		
CHEM 1320 Forensic Chemistry I		
CHEM 1321 Forensic Chemistry II		
CHEM 1330 Culinary Chemistry		
CHEM 1340 The Chemistry of Luxury		
CHEM 1350 Chemistry in Action		
HNRS 2413 Honors Calculus I		
HNRS 2414 Honors Calculus II		
MATH 1316 Trigonometry		
MATH 1324 Mathematics for Business and Economics I		
MATH 1325 Mathematics for Business and Economics II		
MATH 1332 Math for Liberal Arts Majors I		
MATH 1333 Math for Liberal Arts Majors II		
MATH 1342 Statistics		
MATH 1343 Statistics II		
MATH 1350 Concepts of Modern Mathematics I		
MATH 1351 Concepts of Modern Mathematics II		
MATH 2413 Calculus I		
MATH 2414 Calculus II		

PHYS 1301 / 1101 College Physic I		
PHYS 1302 / 1102 College Physic II		
PHYS 1303 Introduction to Astronomy		
PHYS 2325 / 2125 University Physics I		
PHYS 2326 / 2126 University Physics II		

Total Lower Division Hours from Core Curriculum

42 Hours

BIOLOGY CURRICULUM REQUIREMENTS

LOWER DIVISION CHEMISTRY (MAY BE PART OF UNIVERSITY CORE)

8 Hours

CHEM 1311 / 1111 General Chemistry I and Lab	Fall, Spring	
CHEM 1312 / 1112 General Chemistry II and Lab	Spring, Summer	

MATHEMATICS (MAY BE PART OF UNIVERSITY CORE)

4 Hours

MATH 2413 Calculus I	Fall, Spring, Summer	
MATH Elective, e.g. MATH1342 Statistics		

(NOTE: Statistics are required for Pre- Med/Dent/PA)

PHYSICS (MAY BE PART OF UNIVERSITY CORE)

8 Hours

PHYS 1301 / 1101 College Physics I and Lab	Fall	
PHYS 2325 / 2125 University Physics I and Lab	Fall, Spring	
PHYS 1302 / 1102 College Physics II and Lab	Spring	
PHYS 2326 / 2126 University Physics II and Lab	Fall, Spring	

UPPER DIVISION CHEMISTRY 12 Hours

CHEM 3342 / 3143 Organic Chemistry I and Laboratory	Fall	
CHEM 3344 / 3145 Organic Chemistry II and Laboratory	Spring	
CHEM 4334 / 4135 Biochemistry I and Laboratory	Fall, Spring	

ADDITIONAL CHEMISTRY/MATH

3-4 Hours

CHEM 3310 / 3111 Analytical Chemistry and Laboratory		
MATH 1342 Statistics		

BIOLOGY CORE CURRICULUM

29 Hours

BIOL 1306 / 1106 General Biology I and Laboratory	Fall, Spring, Summer	
BIOL 1307 / 1107 General Biology II and Laboratory	Fall, Spring, Summer	
BIOL 3332 / 3133 Genetics and Laboratory	Fall	
BIOL 3336 / 3137 Ecology and Laboratory	Fall	
BIOL 3334 / 3134 Cell Biology and Laboratory	Spring	
BIOL 3339 / 3139 Plant Biology and Laboratory	Fall	
BIOL 3338 Biological Evolution	Spring	
BIOL 4114 Scientific Communication I	Fall	
BIOL 4115 Scientific Communication II	Spring	

UPPER DIVISION BIOLOGY (ONE LECTURE/LAB COURSE FROM EACH GROUP) 15 HOURS

GROUP I (4 HOURS)

BIOL 4300 / 4101 Microbiology and Laboratory	Fall/Spring	
BIOL 4306 / 4106 Bioinformatics and Laboratory	Spring	
BIOL 4302/4102 Molecular Biology for Modifying Organisms and Laboratory	Spring	

GROUP II (3 HOURS)

BIOL 4304 Biogeography	Fall	
BIOL 3329 Genomics	Fall	
BIOL 3350 Conservation Biology	Spring (even years)	
BIOL 4350 Immunology	Spring	

GROUP III (4 HOURS)

BIOL 4305/4105 Aquatic Biology and Laboratory	Spring	
BIOL 4331/4132 Entomology and Laboratory	Fall (even years)	
BIOL 4340/4141 Ornithology and Laboratory	Fall (odd years)	

GROUP IV (4 HOURS)

BIOL 4335/4136 Vertebrate and Natural History and Lab	Spring	
BIOL 3343/3144 Physiology and Laboratory	Spring	
BIOL 4330/4131 Herpetology and Laboratory	Fall	

ELECTIVES

2 Hours

UT Tyler Degree Requirements

- Complete the University Core Curriculum Requirements
- Complete 120 total hours, 42 upper division hours, 30 hours at UTT (last 24 hours completed at UT Tyler)
- Have a “C” or better in all university core courses and hold a 2.0 or better GPA in the biology major.

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:

- General Biology I & II with labs (8 hours)
- 12 hours of Upper Division Biology courses (selections must be approved by advisors)

NOTE:

- A grade of “D” will not Transfer into UT Tyler or the Biology Curriculum
- A Grade of “C” or better must be earned in all Biology Courses (both core and elective) to earn a degree in Biology at UT Tyler.
- A Grade of “D” in a Student’s Non-Major Course, e.g. Math, Physics or Chemistry will be accepted towards graduation, however an overall GPA of 2.0 or better is required for graduation.