

# Bachelor of Science in Biology (Life Science Teacher Certification)

## About This Program

The Bachelor of Science in Biology with Life Science Teacher Certification prepares students to earn a secondary teacher certification in biology. Interested students should meet with the UTeach advisor.

## Competencies

1. Upon completion, students will gain a broad background in science covering a wide range of fields.
2. Upon completion, students will complete prerequisites for professional school while also preparing to teach secondary life science.
3. Upon completion, students will gain certification to teach science at the secondary level in Texas.

## Curriculum

### Foundations

General Core Requirements (<https://catalog.uta.edu/academicregulations/degree requirements/generalcore requirements/>)

42

Students must complete specific courses in certain core areas:

For Communication select:

ENGL 1301	RHETORIC AND COMPOSITION I
ENGL 1302	RHETORIC AND COMPOSITION II

For Life and Physical Science select:

PHYS 1441	GENERAL COLLEGE PHYSICS I
PHYS 1442	GENERAL COLLEGE PHYSICS II

For Mathematics select:

MATH 1421	PREPARATION FOR CALCULUS
MATH 1426	CALCULUS I

For U.S. History select:

HIST 1301	HISTORY OF THE UNITED STATES TO 1865
HIST 1302	HISTORY OF THE UNITED STATES, 1865 TO PRESENT

For Component Area Option select:

CHEM 1441	GENERAL CHEMISTRY I
-----------	---------------------

### Biology Foundations

Additional hours required in core. 5

UNIV 1131	STUDENT SUCCESS	1
or UNIV 1101	CAREER PREPARATION AND STUDENT SUCCESS	
CHEM 1442	GENERAL CHEMISTRY II	4
CHEM 2321	ORGANIC CHEMISTRY I	3
CHEM 2322	ORGANIC CHEMISTRY II	3
CHEM 2181	ORGANIC CHEMISTRY I LABORATORY	1
CHEM 2182	ORGANIC CHEMISTRY II LABORATORY	1

### Education - Teacher Preparation Courses

SCIE 1201	STEP 1: INQUIRY APPROACHES TO TEACHING	2
SCIE 1202	STEP 2: INQUIRY-BASED LESSON DESIGN	2
PHIL 2314	PERSPECTIVES ON SCIENCE AND MATHEMATICS	3
SCIE 4107	CAPSTONE TEACHING EXPERIENCE SEMINAR	1
SCIE 4331	KNOWING AND LEARNING IN STEM	3
SCIE 4332	CLASSROOM INTERACTIONS	3
SCIE 4333	MULTIPLE TEACHING PRACTICES	3
SCIE 4607	CAPSTONE TEACHING EXPERIENCE FOR STEM SECONDARY GRADES	6

### Biology Specialization

BIOL 1441	BIOLOGY I FOR SCIENCE MAJORS: CELL AND MOLECULAR BIOLOGY	4
-----------	--	---

BIOL 1442	BIOLOGY II FOR SCIENCE MAJORS: ECOLOGY AND EVOLUTION	4
BIOL 2300	BIOSTATISTICS	3
BIOL 3315	GENETICS	3
BIOL 4343	RESEARCH METHODS - UTEACH	3
BIOL 3427	PLANT SCIENCE	4
BIOL 3454	GENERAL ZOOLOGY	4
BIOL 2444	GENERAL MICROBIOLOGY	4
Select 7 hours from the following:		7
BIOL 3312	IMMUNOLOGY	
BIOL 3301	CELL PHYSIOLOGY	
BIOL 3339	INTRODUCTION TO EVOLUTION	
BIOL 3442	HUMAN PHYSIOLOGY	
BIOL 3446	HUMAN ANATOMY	
BIOL 3457	GENERAL ECOLOGY	
Select two 3000/4000 level BIOL courses approved by the UTeach advisor		6
<b>Total Hours</b>		<b>125</b>

## SUGGESTED COURSE SEQUENCE

### First Year

First Semester	Hours	Second Semester	Hours
ENGL 1301		3 ENGL 1302	3
BIOL 1441		4 BIOL 1442	4
CHEM 1441		4 CHEM 1442	4
MATH 1421		4 SCIE 1202	2
SCIE 1201		2 MATH 1426	4
UNIV 1131 or 1101		1	
		<b>18</b>	<b>17</b>

### Second Year

First Semester	Hours	Second Semester	Hours
CHEM 2321		3 BIOL 3427	4
BIOL 2444		4 BIOL 3315	3
CHEM 2181		1 SCIE 4332	3
POLS 2311		3 CHEM 2322	3
SCIE 4331		3 CHEM 2182	1
Language, Philosophy and Culture		3 POLS 2312	3
		<b>17</b>	<b>17</b>

### Third Year

First Semester	Hours	Second Semester	Hours
BIOL 2300		3 BIOL 3301	3
BIOL 3454		4 BIOL 4343	3
PHYS 1441		4 PHYS 1442	4
PHIL 2314		3 Social / Behavioral Science	3
HIST 1301		3 HIST 1302	3
		<b>17</b>	<b>16</b>

### Fourth Year

First Semester	Hours	Second Semester	Hours
BIOL 3442		4 SCIE 4607	6
Biology Advanced Electives		6 SCIE 4107	1
Creative Arts		3	
SCIE 4333		3	
		<b>16</b>	<b>7</b>

Total Hours: 125

## Advising Resources

Biology department advising is available for transfer students, prospective students, and first time in college students after meeting transition criteria.

**Location:**

Life Science Building 3rd floor - 345, 347, 349, 351

**Email:**

Find advisor emails at link below.

**Phone:**

817-272-2408

**Web:**

Contact your advisor - schedule an appointment (<https://www.uta.edu/academics/schools-colleges/science/departments/biology/advising/>)