

# Bachelor of Arts in Biology (Composite Science Teacher Certification)

## About This Program

The Bachelor of Arts Degree in Biology with Composite Science Teacher Certification pathway is suitable for career preparation in a number of biological career fields and for students who desire secondary teaching certification in composite science.

## Competencies

1. Upon completion, students will gain a broad background in science covering a wide range of fields.
2. Upon completion, students will gain the knowledge and skills that will prepare them to teach all secondary science subjects.
3. Upon completion, students will gain certification to teach science at the secondary level in Texas.

## Curriculum

This program is suitable preparation for students who desire secondary teacher certification in composite science. Interested students should meet with the UTeach advisor.

### 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 Mathematics select:

MATH 1302	COLLEGE ALGEBRA
MATH 1303	TRIGONOMETRY

For Life and Physical Science select:

ASTR 1345	INTRODUCTORY ASTRONOMY I
GEOL 1301	EARTH SYSTEMS

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
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### Biology Foundations

Additional hour required in core. 1

UNIV 1131	STUDENT SUCCESS	1
or UNIV 1101	CAREER PREPARATION AND STUDENT SUCCESS	

Select two hours at any level. 2

CHEM 1442	GENERAL CHEMISTRY II	4
CHEM 2321	ORGANIC CHEMISTRY I	3
PHYS 1441	GENERAL COLLEGE PHYSICS I	4
PHYS 1442	GENERAL COLLEGE PHYSICS II	4

### 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 4607	CAPSTONE TEACHING EXPERIENCE FOR STEM SECONDARY GRADES	6
SCIE 4331	KNOWING AND LEARNING IN STEM	3
SCIE 4332	CLASSROOM INTERACTIONS	3
SCIE 4333	MULTIPLE TEACHING PRACTICES	3

**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 3315	GENETICS	3
BIOL 3427	PLANT SCIENCE	4
BIOL 3454	GENERAL ZOOLOGY	4
BIOL 2444	GENERAL MICROBIOLOGY	4
BIOL 4343	RESEARCH METHODS - UTEACH	3

Select 7 hours from the following: 7

BIOL 3301	CELL PHYSIOLOGY	
BIOL 3310	SELECTED TOPICS IN BIOLOGY	
BIOL 3312	IMMUNOLOGY	
BIOL 3339	INTRODUCTION TO EVOLUTION	
BIOL 3442	HUMAN PHYSIOLOGY	
BIOL 3446	HUMAN ANATOMY	
BIOL 3457	GENERAL ECOLOGY	

Select an advanced BIOL elective with advisor. 3

**Total Hours** 120

**SUGGESTED COURSE SEQUENCE****First Year**

First Semester	Hours	Second Semester	Hours
BIOL 1441		4 BIOL 1442	4
CHEM 1441		4 CHEM 1442	4
MATH 1302		3 MATH 1303	3
ENGL 1301		3 ENGL 1302	3
SCIE 1201		2 SCIE 1202	2
UNIV 1131 or 1101		1	
		<b>17</b>	<b>16</b>

**Second Year**

First Semester	Hours	Second Semester	Hours
BIOL 3315		3 BIOL 2444	4
CHEM 2321		3 BIOL 3301	3
PHYS 1441		4 PHYS 1442	4
HIST 1301		3 SCIE 4332	3
SCIE 4331		3 Any level elective	2
		<b>16</b>	<b>16</b>

**Third Year**

First Semester	Hours	Second Semester	Hours
BIOL 3427		4 BIOL 3454	4
Advanced Biology Elective		3 GEOL 1301	3
HIST 1302		3 POLS 2311	3
Language, Philosophy and Culture		3 Social and Behavioral Science	3
PHIL 2314		3 BIOL 4343	3
		<b>16</b>	<b>16</b>

**Fourth Year**

First Semester	Hours	Second Semester	Hours
BIOL 3442		4 SCIE 4607	6
ASTR 1345		3 SCIE 4107	1
POLS 2312		3	
SCIE 4333		3	
Creative Arts		3	
		<b>16</b>	<b>7</b>

**Total Hours: 120**

## 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/>)