

Bachelor of Arts in Geology - Composite Science Teacher Certification (UTEACH)

About This Program

The Bachelor Arts in Geology Composite Science Teacher Certification Option is for students who want teacher certification, and it is offered through the UTeach program.

Competencies

1. Upon graduation, students will demonstrate expertise in the use of methods found within the core disciplines of geology including mineralogy, petrology, sedimentology and stratigraphy, paleontology, and structural geology.
2. Upon graduation, students will be able to interpret geological maps and describe three-dimensional structures of rocks in the earth's crust.
3. Upon graduation, students will be able to analyze scientific data in geoscience.
4. Upon graduation, students will be able to communicate complex information using written reports and oral presentation to both specialists and non-specialists.
5. Upon graduation, students will be able to provide scientific instruction at the secondary level in Texas.

Curriculum

Foundations

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

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Students must select specific courses in certain core areas.

For Communication select:

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

For Life & Physical Sciences select:

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

For Mathematics select:

MATH 1308	ELEMENTARY STATISTICAL ANALYSIS
MATH 1421	PREPARATION FOR CALCULUS

For U.S. History select:

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

Geology Foundations

Additional hours required in core.

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UNIV 1131 STUDENT SUCCESS

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Communication Competence - pass oral presentation requirement in GEOL 3441 or GEOL 3443, or complete COMS 1301, COMS 2302, or equivalent course

Computer Competence - pass Computer Skills Placement test or any computer-related course.

EDUC 4331	KNOWING AND LEARNING IN MATH AND SCIENCE	3
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 3454	GENERAL ZOOLOGY	4
ENVR 4303	TOPICS IN SUSTAINABILITY	3
CHEM 1441	GENERAL CHEMISTRY I	4
CHEM 1442	GENERAL CHEMISTRY II	4

TEACHER CERTIFICATION (UTEACH)

SCIE 1201	STEP 1: INQUIRY APPROACHES TO TEACHING	2
SCIE 1202	STEP 2: INQUIRY-BASED LESSON DESIGN	2
SCIE 4107	CAPSTONE TEACHING EXPERIENCE SEMINAR	1
SCIE 4607	CAPSTONE TEACHING EXPERIENCE FOR STEM SECONDARY GRADES	6

EDUC 4331	KNOWING AND LEARNING IN MATH AND SCIENCE	3
EDUC 4332	CLASSROOM INTERACTIONS	3
EDUC 4333	MULTIPLE TEACHING PRACTICES IN MATH AND SCIENCE	3
PHIL 2314	PERSPECTIVES ON SCIENCE AND MATHEMATICS	3
Geology Specialization		
GEOL 1301	EARTH SYSTEMS	3
GEOL 1302	EARTH HISTORY	3
GEOL 2445	MINERALOGY	4
GEOL 3441	BIOSTRATIGRAPHY AND LIFE THROUGH TIME	4
or GEOL 3446	PETROLOGY AND GEOCHEMISTRY	
GEOL 3442	SEDIMENTOLOGY AND STRATIGRAPHY	4
GEOL 3443	STRUCTURAL GEOLOGY	4
GEOL 4343	RESEARCH METHODS - UTEACH	3
Select at least 36 hours at the 3000/4000-level.		
Total Hours		127

SUGGESTED COURSE SEQUENCE

First Year

First Semester	Hours	Second Semester	Hours
UNIV 1131		1 GEOL 1302	3
GEOL 1301		3 MATH 1308	3
SCIE 1201		2 ENGL 1302	3
MATH 1421		4 CHEM 1442	4
CHEM 1441		4 SCIE 1202	2
		14	15

Second Year

First Semester	Hours	Second Semester	Hours
EDUC 4331		3 EDUC 4332	3
BIOL 1441		4 BIOL 1442	4
GEOL 2445		4 PHYS 1442	4
PHYS 1441		4 Creative Arts	3
		15	14

Third Year

First Semester	Hours	Second Semester	Hours
ENGL 1301		3 BIOL 3454	4
BIOL 3315		3 ENVR 4303	3
HIST 1301		3 GEOL 4343	3
PHIL 2314		3 GEOL 3442	4
GEOL 3443		4 HIST 1302	3
		16	17

Fourth Year

First Semester	Hours	Second Semester	Hours
GEOL 3441 or 3446		4 POLS 2312	3
POLS 2311		3 Foundational Component Area	3
EDUC 4333		3 SCIE 4107	1
Social/Behavioral Science		3 SCIE 4607	6
Language, Philosophy and Culture		3	
		16	13

Total Hours: 120

Program Completion

Advising Resources

First time in college students should plan to speak to a program advisor when starting their second year. or have an academic advising hold. Transfer students should contact program advising when enrolled or have an academic advising hold.

Location:

SH 328C

Email:

kaycee.nikses@uta.edu

Phone:

817-272-9686

Web:

Schedule an appointment (<https://outlook.office365.com/book/PHYSGEOLEESADVISING@mavs.uta.edu/>)