

SCIENCE EDUCATION: EARTH SCIENCE, BACHELOR OF SCIENCE IN EDUCATION

Minimum Total Credit Hours: 124
 Minimum Upper-Division Hours: 40
 Overall GPA - Combined and OU: 2.75
 Major GPA - Combined and OU: 2.75

Program Code: B832

Major Requirements

Students must maintain a minimum of 2.75 grade point average with no grade less than a C in the Professional Education and Specialized Education courses for graduation.

Certification: To be fully certified, students must pass Certification Examinations for Oklahoma Educators, apply for a license, and successfully complete the residency program.

Code	Title	Credit Hours
Professional Education (31 hours)		
EIPT 3473	Learning, Development, and Assessment for Teachers ¹	3
EDSP 3053	Understanding and Accommodating Exceptional Learners	3
EIPT 3043	Learning with Educational Technologies	3
EDS 4003	Schools in American Cultures ¹	3
EIPT 3483	Motivation and Classroom Management for Teachers ¹	3
EDSC 4513	Teaching Science in Secondary Schools ¹	3
EDSC 4533	Advanced Methods in Science Teaching (Capstone) ²	3
EDUC 4060	Teaching Experiences in the Secondary School ^{1,2}	10

Specialized Education (52 hours)

Biological Science

Satisfied under Gen Ed

Chemistry

CHEM 1315	General Chemistry ³	5
CHEM 1415	General Chemistry (Continued) ³	5

Physics

Choose one of the following tracks: 10

Track 1:

PHYS 1205	Introductory Physics I for Physics Majors	
PHYS 1215	Introductory Physics II for Physics Majors	

Track 2:

PHYS 2514 & PHYS 1311	General Physics for Engineering and Science Majors and General Physics Lab I	
PHYS 2524 & PHYS 1321	General Physics for Engineering and Science Majors and General Physics Lab II	

Earth & Space Science		
ASTR 1514	Astronomy: Exploring the Universe with Laboratory ³	4
GEOL 1024	The History of the Earth and Life ³	4
GEOL 1114	Physical Geology for Science and Engineering Majors	4
METR 1014	Introduction to Weather and Climate	4
METR 2603	Severe and Unusual Weather ³	3
METR/GEOL 4533	Earth's Past Climate	3
Statistics		
PSY 2003	Understanding Statistics ³	3
Research		
Choose one of the following:		2
GEOL/METR 3990	Independent Study	
GEOL/METR 4990	Independent Study	
Environmental Science		
EDSC 3233	Environmental Issues in the Community	3
Electives		
Choose 2 hours from the following:		2
ASTR 1523	Life in the Universe	
ASTR 2513	Introductory Astrophysics	
GEOL 3633	Introduction to Oceanography	
GIS 2023	Introduction to Spatial Thinking and Computer Mapping	
GIS 4133	Fundamentals of Remote Sensing	
GIS 4353		
Total Credit Hours		83

¹ These courses require field experience.

² These courses are taken together in the final semester.

³ These 14 hours along with the 41 hours listed in General Education comprise the 55 hours required for Liberal Arts & Sciences.

General Education Requirements

These General Education courses meet minimum University, College and State General Education Requirements.

Code	Title	Credit Hours
Communication Skills (9 hours)		
ENGL 1113	Principles of English Composition (Core I)	3
ENGL 1213	Principles of English Composition (Core I) or EXPO 1213 Expository Writing	3
COMM 1113	Principles of Communication (Core I) or COMM 2613 Public Speaking	3
Mathematics (6 hours)		
MATH 1823	Calculus and Analytic Geometry I (or higher; Core I)	3
MATH 2423	Calculus and Analytic Geometry II (or higher)	3
U.S. History & Government (6 hours)		
HIST 1483	United States, 1492 to 1865 (Core IV)	3

or HIST 1493	United States, 1865 to the Present	
P SC 1113	American Federal Government (Core III)	3
Biological and Physical Sciences (8 hours)		
BIOL 1114	Introductory Zoology (Core II-NL)	4
GEOL 2014	The Earth System (Core II-Lab)	4
Arts & Humanities (6 hours)		
Choose one course from Core IV-Artistic Forms (Core IV-AF)		
HSCI 3013	History of Science to the Age of Newton (Core IV-WC)	3
or HSCI 3023	History of Science Since the Seventeenth Century	
Social & Behavioral Sciences (3 hours)		
GEOG 3253	Environmental Conservation (Core III-SS)	3
Foreign Language (0-10 hours)		
<i>University-Wide General Education Requirement</i>		
Choose two college-level courses in a single foreign language; may be satisfied by successful completion of 2 years in a single foreign language in high school (Core I)		0-10
<i>Oklahoma State Regents for Higher Education Requirement</i>		
Teacher candidates must demonstrate conversational skills at a novice-high level in a language other than English ¹		
Non-Western Culture (3 hours)		
Choose one of the following (Core IV-NWC):		3
HSCI 3313	Science and Technology in Asian History	
HSCI 3453	Science and Civilization in Islam	
HSCI 3483	Technology, Politics, and International Development	
Senior Capstone		
The following is satisfied under Professional Education requirements (Capstone, Core V):		
EDSC 4533	Advanced Methods in Science Teaching	
Total Credit Hours		41-51

¹ The novice-high level language requirement may be satisfied by classical, modern, Native or American Sign Language.

The 41 above hours, along with CHEM 1315, CHEM 1415, ASTR 1514, GEOL 1024, METR 2603 and PSY 2003 (14 hours) in the Specialized Education requirements, comprise the 55 hours required for Liberal Arts & Sciences.

Certification and Degree Requirements

Field Experiences: Transfer students without appropriate field experiences may be required to enroll in EDUC 2400.

Pass/No Pass Enrollment: Only general education electives may be taken under the pass/no pass option.

Residence Requirements: Students must complete either the last 30 hours or 45 of the last 60 hours after being fully admitted to a teacher education program to satisfy this requirement.

Requirements to be Completed to be Eligible for Student Teaching Internship: Students must be in good standing and have completed all baccalaureate degree requirements with the exception of the appropriate internship course itself and the courses taken with it in the final semester per their major requirements.

Junior College Transfer Students: Students transferring from a junior college may use the transferred credit to meet certain lower-division course requirements only; that is, freshman and sophomore-level courses.

Degree Completion Responsibility: Although the Dean's Office checks each student's records, **the responsibility for meeting degree requirements lies with the student** and not with the advisor or the Dean. Each student should obtain a copy of his or her requirements for graduation and check it regularly as he or she completes his or her degree program.

Graduation Application: The final step to be completed by the student before graduation is the filing of an official Application for Graduation. The Application for Graduation should be filled out online by September 15 for fall graduation, February 15 for spring graduation, and June 1 for summer graduation. **The student's degree will not be conferred, nor any completion statement entered on his or her transcript, until the required application is filed.**

Admission and Retention Requirements

Admission Requirements—Jeannine Rainbolt College of Education

Students are eligible for admission to the Jeannine Rainbolt College of Education with:

1. a minimum of 24 semester hours earned from an accredited institution of higher learning;
2. a minimum of **2.75** combined retention grade point average on all coursework attempted;
3. a declared major in education.

Full Admission Requirements—Teacher Education and Professional Studies Programs

Students are eligible for admission to Teacher Education with:

1. a minimum of 30 semester hours from an accredited institution of higher learning to include the following 24 hours as defined by the Oklahoma State Regents for Higher Education with a grade of C or better: English (Composition and Literature)-6 hours; MATH, Gen. Ed. Core I -3 hours; American History-3 hours; American Government-3 hours; Humanities to include Artistic Forms, Western Civilization, Non-Western Culture, World Language, or other advisor-approved Gen. Ed. course -3 hours; Social and Behavioral Sciences-3 hours; Natural Sciences-3 hours.
2. a minimum of **2.75** grade point average (OU retention and combined retention) on all coursework attempted;
3. successful completion of the OGET (Oklahoma General Education Test) or PPST (Pre Professional Skills Test) The OGET Exam requires a minimum score of 240. All three portions of the PPST must be passed with minimum cut scores of MATH 171, WRITING 172, and READING 173.

Admission to a teaching program requires submission of an application, essay, background check, and an interview with the admission committee prior to enrollment in the first education course.

Retention Requirements—Jeannine Rainbolt College of Education

1. When a student accepts an offer of admission into a JRCoE department or program, he or she commits to comply with all its regulations, including those regarding professional conduct and dispositions that are contained in the JRCoE Professional Behavior Policy.
2. Students must maintain a minimum **2.75** grade point average (OU retention and combined retention) in all **undergraduate** coursework and a minimum 3.00 grade point average in all **graduate** coursework attempted.

3. Students must maintain a minimum of **2.75 undergraduate** grade point average in both professional education courses and in specialized education courses with no grade less than a **C** and must maintain a minimum of 3.00 grade point average in **graduate** professional and specialized education courses, with no grade less than a **B**.
4. Students must earn a C or better in COMM 1113 or COMM 2613.
5. Students whose OU retention or combined retention grade point averages at the **undergraduate** level fall below **2.75** will be subject to dismissal from the college. At the **graduate** level, students must meet Graduate College requirements.
6. Students who have not earned OU retention and combined retention grade point averages of **2.75** after the completion of 60 semester hours will be dismissed from the College.
7. Because one college level math course is a requirement for full admission into both the college and the teacher preparation program, declared Education majors must complete at least one college-level Math within the first four semesters of enrollment at OU. Transfer students who have not completed a college level Math course will have two semesters to complete the requirement. Students who fail to meet the requirement within the time limits specified will be subject to dismissal from the College.
8. Course work more than 10 years old in the teaching specialization and professional education may not be credited toward the completion of a teacher education degree and/or certificate program. However, course work over 10 years old may be reviewed by the appropriate certificate committee for possible credit toward the completion of a teacher education degree and/or certificate program.
9. A student has 6 years to complete a teacher education degree and/or certificate program after full admission. After the 6-year period, a student must seek readmission to that program and meet the catalog requirements in effect at the time of readmission.
10. Students will be withdrawn from courses for failing to observe prerequisites and corequisites. Continued disregard of prerequisites and corequisites is grounds for dismissal from the College.
11. To be eligible for the Graduate Certification Component, students must have been admitted to the Graduate College in good standing (3.0 on last 60 hours) or conditionally (2.75-2.99 on last 60 hours). **The academic forgiveness policy is not applicable for admission to the Graduate College.**

Suggested Semester Plan of Study

Course	Title	Credit Hours
Freshman		
First Semester		
ENGL 1113	Principles of English Composition (Core I)	3
MATH 1823	Calculus and Analytic Geometry I (or higher) (Core I)	3
HIST 1483 or HIST 1493	United States, 1492 to 1865 or United States, 1865 to the Present	3
COMM 1113 or COMM 2613	Principles of Communication (Core I) or Public Speaking	3
BIOL 1114	Introductory Zoology	4
Credit Hours		16
Second Semester		
ENGL 1213 or EXPO 1213	Principles of English Composition (Core I) or Expository Writing	3

MATH 2423	Calculus and Analytic Geometry II (or higher)	3
P SC 1113	American Federal Government (Core III)	3
GEOL 1024	The History of the Earth and Life	4
GEOL 2014	The Earth System (Core II-Lab)	4
Credit Hours		17
Sophomore		
First Semester		
EIPT 3473	Learning, Development, and Assessment for Teachers	3
Understanding Artistic Forms (Core IV-AF)		3
METR 1014	Introduction to Weather and Climate	4
PSY 2003	Understanding Statistics	3
CHEM 1315	General Chemistry	5
Credit Hours		18
Second Semester		
EDSP 3053	Understanding and Accommodating Exceptional Learners	3
CHEM 1415	General Chemistry (Continued)	5
GEOL 1114	Physical Geology for Science and Engineering Majors	4
GEOG 3253	Environmental Conservation (Core III-SS)	3
Credit Hours		15
Junior		
First Semester		
EDS 4003	Schools in American Cultures	3
HSCI 3013 or HSCI 3023	History of Science to the Age of Newton or History of Science Since the Seventeenth Century	3
Choose one of the following:		5
PHYS 1205	Introductory Physics I for Physics Majors	
PHYS 2514 & PHYS 1311	General Physics for Engineering and Science Majors and General Physics Lab I	
ASTR 1514	Astronomy: Exploring the Universe with Laboratory	4
Credit Hours		15
Second Semester		
EIPT 3043	Learning with Educational Technologies	3
Choose one of the following (Core IV-NWC):		3
HSCI 3313	Science and Technology in Asian History	
HSCI 3453	Science and Civilization in Islam	
HSCI 3483	Technology, Politics, and International Development	
Choose one of the following:		5
PHYS 1215	Introductory Physics II for Physics Majors	
PHYS 2524 & PHYS 1321	General Physics for Engineering and Science Majors and General Physics Lab II	
METR 2603	Severe and Unusual Weather	3
Science Elective from approved list		2
Credit Hours		16

Senior**First Semester**

EDSC 4513	Teaching Science in Secondary Schools	3
EDSC 3233	Environmental Issues in the Community	3
EIPT 3483	Motivation and Classroom Management for Teachers	3
GEOL 4533 or METR 4533	Earth's Past Climate or Earth's Past Climate	3
Independent Study: GEOL 3990 or 4990, or METR 3990 or 4990		2
Credit Hours		14

Second Semester

EDUC 4060	Teaching Experiences in the Secondary School	10
EDSC 4533	Advanced Methods in Science Teaching (Capstone)	3
Credit Hours		13
Total Credit Hours		124