REQUIREMENTS FOR THE BACHELOR OF SCIENCE JEANNINE RAINBOLT COLLEGE OF EDUCATION THE UNIVERSITY OF OKLAHOMA

Academic Year

For Students Entering the Oklahoma State System for Higher Education Summer 2024 through Spring 2025

General Requirements	Program	
Minimum Total Credit Hours	Science Education: Cher	nistry
Minimum Retention/Graduation Grade Point Averages:	B831	
Overall - Combined and OU	Bachelor of Science	2

OU encourages students to complete at least 31 hours of applicable coursework each year to have the opportunity to graduate in 4 years.

GENERAL EDUCATION AND COLLEGE REQUIREMENTS

Courses taken to fulfill the University General Education Requirements must be chosen from the approved General Education course list published in the Class Schedule or at http://www.ou.edu/ gened/courses. The following courses meet minimum University, College, and State General Education Requirements.

UNIVERSITY-WIDE GENERAL EDUCATION (MINIMUM 40 HOURS) AND COLLEGE REQUIREMENTS

Code	Title	Credit Hours				
Core Area I: Symboli	c and Oral Communication					
Communication Skills	(9 hours)					
ENGL 1113	L 1113 Principles of English Composition (Core I-EN1)					
ENGL 1213	Principles of English Composition (Core I-EN2)	3				
or EXPO 1213	or EXPO 1213 Expository Writing					
COMM 1113	IM 1113 Principles of Communication (Core I)					
or COMM 2613	Public Speaking					
Language (0-10 hours)		0-10				
University-Wide General Education Requirement: Choose two college-level courses in a single language; may be satisfied by successful completion of 2 years in a single language in high school (Core I)						
Oklahoma State Regents for Higher Education Requirement: Teacher candidates must demonstrate conversational skills at a novice-high level in a language other than English OR demonstrate the knowledge and skills necessary to address the needs of Emergent Bilingual (English Learner) students in the P-12 classroom and are proficient in the strategies required for successful delivery of P-12 instruction in that area ¹						
Mathematics (6 hours)						
MATH 1523	Precalculus and Trigonometry (or higher) (Core I- MATH))	3				
MATH 1823	Calculus and Analytic Geometry I (or higher (Core I- MATH))	3				
Core Area II: Natural	Science (8 hours)					
BIOL 1124	Intro Biol: Molecule/Cell/Phys (Core II-NSL)	4				
GEOL 2014	The Earth System (Core II-NSL)	4				
Core Area III: Social	Science (6 hours)					
P SC 1113	American Federal Government (Core III-PSC)	3				
GEOG 3253	Environmental Conservation (Core III-SS)	3				
Core Area IV: Arts an	nd Humanities (12 hours)					
HIST 1483	United States to 1865 (Core IV-HIST)	3				
or HIST 1493	United States, 1865 to the Present					
HSTM 3013	History of Science to the Age of Newton (Core IV-WC)	3				
or HSTM 3023	History of Science Since the Seventeenth Century					
Choose one course fro	m Core IV-Artistic Forms	3				
Choose one of the follo	owing (Core IV-WDC):	3				
HSTM 3313	Science and Technology in Asian History					
HSTM 3453	Science and Civilization in Islam					
HSTM 3483	Technology, Politics, and International Development					
Core Area V: First Ye	ar Experience (3 hours)					
Choose one course (Co	ore V-FYF)	3				

1 The novice-high level language requirement may be satisfied by classical, modern, Native or American Sign Language. Courses that demonstrate knowledge and skills necessary to address the needs of Emergent Bilingual students are determined by the College of Education.

The 44 hours above, along with CHEM 1315, CHEM 1415, (or CHEM 1425), and one or both Physics courses (11 hours, total) in the Specialized Education requirements, comprise the 55 required Liberal Arts hours.

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 and apply for a license.

)	Code Professional Education	Title	Credit Hours
	EIPT 3473		3
s		Learning, Development, and Assessment for Teachers ¹	
	EDSP 3053	Understanding and Accommodating Exceptional Learners	3
	EIPT 3043	Learning with Educational Technologies	3
3	EDS 4003	Schools in American Cultures ¹	3
3	EIPT 3483	Motivation and Classroom Management for Teachers	3
3	EDWL 4323	Foundations and Practice for Bi/Multilingual Learners PK-12	3
	EDSC 4513	Teaching Science in Secondary Schools	3
0	EDSC 4533	Advanced Methods in Science Teaching ¹	3
	EDUC 4060	Teaching Experiences in the Secondary School ^{1,2}	10
	ILAC 4243	Student Teaching Seminar ²	3
	Specialized Education ((43 hours)	
	Biological Science - Satisj	fied under Gen Ed	
	Chemistry		
	Choose one of the follow	ving:	5-10
	CHEM 1315 & CHEM 1415	General Chemistry (Continued) ³	
	CHEM 1425	Advanced General Chemistry (HONORS) ³	
3	CHEM 3005	Quantitative Analysis	5
3	CHEM 3053	Organic Chemistry I: Biological Emphasis	3
5	CHEM 3152	Organic Chemistry Laboratory: Biological Emphasis	2
	CHEM 3153	Organic Chemistry II: Biological Emphasis	3
4	CHEM 3653	Introduction to Biochemistry	3
4	CHEM 4023	Instrumental Methods of Chemical Analysis	3
	CHEM 4333	· · ·	3
3	Physics		
3	Choose one of the follow	5 <i>, ,</i>	
	PHYS 2414	General Physics for Life Science Oriented Majors	
3	& PHYS 2424	and General Physics for Life Science Oriented Majors ³	
3	PHYS 2524 & PHYS 2514	General Physics for Engineering and Science Majors and General Physics for Engineering and Science Majors	
	Earth & Space Science - S	, , , ,	
3	Electives		
3	Choose 3-8 hours from	the following:	3-8
	CHEM 3421	Physical Chemistry Laboratory	
	CHEM 3423	Physical Chemistry I	
	CHEM 3521	Physical Chemistry Laboratory	
	CHEM 3523	Physical Chemistry II	
3	CHEM 3753	Introduction to Biochemical Methods	
4	CHEM 4033	Instrumental Methods of Chemical Analysis Laboratory	
	Total Credit Hours		80

1 These courses require field experience.

2 These courses are taken together in the final semester

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

More information in the catalog: (http://ou-public.courseleaf.com/rainbolt-education/ instructional-leadership-academic-curriculum/science-education-chemistry-bachelor-science/).

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 in the forget program. In the completent of the forget program is a first of the organization in the filled out online by May 1 for fall graduation. The Application for Graduation should be filled out online by May 1 for fall graduation, December 1 for spring graduation, and March 1 for summer graduation. The student's degree will not be conferred, nor any completion statement entered on their transcript, until the required application is filed.

ADMISSION & RETENTION REQUIREMENTS

It is the responsibility of the student to read and be familiar with the requirements for Admission to, and Retention in, the Jeannine Rainbolt College of Education. The current Admission and Retention policies can be found in the college's overview page in the OU General Catalog, under the Undergraduate tab here: http://ou-public.courseleaf.com/rainbolt-education/#undergraduatetext.

SUGGESTED SEMESTER PLAN OF STUDY

This plan shows *one possible grouping* of courses that would allow students to graduate in four years. Please refer to the front of the degree checksheet for official requirements. Students must consult with College of Education academic advisors to verify that courses selected each semester fulfill the recommended plan and satisfy university, College of Education, and major requirements.

Year	,	FIRST SEMESTER	Hours		SECOND SEMESTER	Hours
	ENGL 1113	Principles of English Composition (Core I-EN1)	3	ENGL 1213 or EXPO 1213	Principles of English Composition (Core I-EN2) or Expository Writing	3
AN	MATH 1523	Precalculus and Trigonometry (Core I-MATH)	3	MATH 1823	Calculus and Analytic Geometry I (or higher, Core I-MATH)	3
FRESHMAN	HIST 1483 or HIST 1493	United States to 1865 (Core IV-HIST) or United States, 1865 to the Present	3	P SC 1113	American Federal Government (Core III-PSC)	3
FR	BIOL 1124	Intro Biol: Molecule/Cell/Phys (Core II-NSL)	4	GEOL 2014	The Earth System (Core II-NSL)	4
		First Year Experience (Core V-FYE)	3	CHEM 1315	General Chemistry	5
		CREDIT HOURS	16		CREDIT HOURS	18
	EIPT 3473	Learning, Development, and Assessment for Teachers	3	EDSP 3053	Understanding and Accommodating Exceptional Learners	3
ш		Artistic Forms (Core IV-Artistic Forms)	3	EDSC 4513	Teaching Science in Secondary Schools	3
SOPHOMORE	CHEM 1415	General Chemistry (Continued)	5	PHYS 2414 or PHYS 2514	General Physics for Life Science Oriented Majors or General Physics for Engineering and Science Majors	4
HdOS	COMM 1113 or COMM 2613	Principles of Communication (Core I) or Public Speaking	3	CHEM 3005	Quantitative Analysis	5
		CREDIT HOURS	14		CREDIT HOURS	15
	EDS 4003	Schools in American Cultures	3	EIPT 3043	Learning with Educational Technologies	3
	HSTM 3013 or HSTM 3023	History of Science to the Age of Newton (Core IV-WC) or History of Science Since the Seventeenth Century	3	GEOG 3253	Environmental Conservation (Core III-SS)	3
JUNIOR	PHYS 2424 or PHYS 2524	General Physics for Life Science Oriented Majors or General Physics for Engineering and Science Majors	4	CHEM 3153	Organic Chemistry II: Biological Emphasis	3
ND	CHEM 3053	Organic Chemistry I: Biological Emphasis	3	CHEM 3653	Introduction to Biochemistry	3
	CHEM 3152	Organic Chemistry Laboratory: Biological Emphasis	2		CHEM Elective	3
İ	CHEM 4023	Instrumental Methods of Chemical Analysis	3			
		CREDIT HOURS	18		CREDIT HOURS	15
	EDSC 4533	Advanced Methods in Science Teaching	3	EDUC 4060	Teaching Experiences in the Secondary School	10
İ	EIPT 3483	Motivation and Classroom Management for Teachers	3	ILAC 4243	Student Teaching Seminar	3
	EDWL 4323	Foundations and Practice for Bi/Multilingual Learners PK-12	3			
OR	CHEM 4333	Advanced Inorganic Chemistry-Periodic System	3			
SENIOR		Choose one of the following (Core IV, WDC):	3			
SI	HSTM 3313	Science and Technology in Asian History				
	HSTM 3453	Science and Civilization in Islam				
	HSTM 3483	Technology, Politics, and International Development				
		CREDIT HOURS	15		CREDIT HOURS	13