

MATHEMATICS, 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: B673

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 the 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 (37 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
EDMA 4233	Developing Problem-Solving Environ for Secondary Math Learning	3
EDMA 4243	Fundamental Concepts of Secondary Math Learning (Capstone) ²	3
EDMA 4253	Teaching and Learning of Mathematics Reasoning and Proof ¹	3
ILAC 4243	Student Teaching Seminar ³	3
EDUC 4060	Teaching Experiences in the Secondary School ^{1,3}	10
Specialized Education (42 hours)		
<i>Mathematics</i>		
MATH 1823	Calculus and Analytic Geometry I ²	3
MATH 2423	Calculus and Analytic Geometry II ²	3
MATH 2433	Calculus and Analytic Geometry III	3
MATH 2443	Calculus and Analytic Geometry IV	3
MATH 2513	Discrete Mathematical Structures	3
MATH 3113	Introduction to Ordinary Differential Equations	3
MATH 3333	Linear Algebra I	3
MATH 3613	Modern Geometry	3
MATH 4753	Applied Statistical Methods	3
<i>Advanced Mathematics</i>		
Choose 3-6 hours from the following:		3-6
MATH 4193	Introductory Mathematical Modeling	
MATH 4323	Introduction to Abstract Algebra I	

MATH 4383	Applied Modern Algebra	
MATH 4673	Graph Theory I	
MATH 4733	Mathematical Theory of Probability	
MATH 4793	Advanced Applied Statistics	
MATH 4803	Topics in Mathematics	
MATH 4853	Introduction to Topology	
<i>Physics</i>		
PHYS 2514	General Physics for Engineering and Science Majors ²	4
<i>Specialization Electives</i>		
Choose 5-8 hours in consultation with advisor		5-8
Total Credit Hours		79

- ¹ These courses require field experience.
² These 10 hours along with the 45 hours listed in General Education comprise the 55 hour minimum college requirement for General Education.
³ These courses are taken together in the final semester.

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
U.S. History & Government (6 hours)		
HIST 1483	United States, 1492 to 1865 (Core IV) or HIST 1493 United States, 1865 to the Present	3
P SC 1113	American Federal Government (Core III)	3
Biological Science (4-5 hours)		
Choose one course from one of the following areas (must include a laboratory component):		4-5
Biology (Core II)		
Microbiology (Core II)		
Plant Biology (Core II)		
Behavioral Science (3 hours)		
Choose one ANTH, PSY, or SOC course (Core III)		3
Arts & Humanities (9 hours)		
Choose one PHIL course (Core IV-WC)		3
Choose one course from Core IV-Artistic Forms (IV-AF)		3
HSCI 3013	History of Science to the Age of Newton or HSCI 3023 History of Science Since the Seventeenth Century	3
Contemporary World Culture (3 hours)		
Choose one course from one of the following areas:		3
American Ethnic Studies		
Economics		
Foreign Language		
Geography		

World Literature	
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 course from from the University-Wide General Education Approved Course List and advisor approved (Core IV)	3
Senior Capstone	
The following Senior Capstone is satisfied under Professional Education requirements (Capstone, Core V):	
EDMA 4243 Fundamental Concepts of Secondary Math Learning	
Electives (8 hours)	
Choose electives to bring the total to 55 hours	8
Total Credit Hours	45-55

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

The 45 hours above, along with EDMA 4243, MATH 1823, MATH 2423 and PHYS 2514 (10 hours) in the Professional and Specialized Education Requirements, comprise the 55 hours required for General Education.

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 re viewed 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.**

EIPT 3473	Learning, Development, and Assessment for Teachers	3
PHIL (Core IV-WC)		3
PHYS 2514	General Physics for Engineering and Science Majors	4
Credit Hours		16
Second Semester		
EDSP 3053	Understanding and Accommodating Exceptional Learners	3
MATH 2443	Calculus and Analytic Geometry IV	3
MATH 3613	Modern Geometry	3
General Education Elective		3
Specialized Elective		3-6
Credit Hours		15-18
Junior		
First Semester		
MATH 3113	Introduction to Ordinary Differential Equations	3
EDMA 4233	Developing Problem-Solving Environ for Secondary Math Learning	3
EDS 4003	Schools in American Cultures	3
Contemporary World Culture, one course		3
General Education Elective		4-5
Credit Hours		16-17
Second Semester		
MATH 3333	Linear Algebra I	3
HSCI 3013 or HSCI 3023	History of Science to the Age of Newton (or approved equivalent) or History of Science Since the Seventeenth Century	3
EDMA 4243	Fundamental Concepts of Secondary Math Learning (Capstone)	3
Non-Western Culture (Core IV, Advisor Approved)		3
EIPT 3043	Learning with Educational Technologies	3
Credit Hours		15
Senior		
First Semester		
EDMA 4253	Teaching and Learning of Mathematics Reasoning and Proof	3
EIPT 3483	Motivation and Classroom Management for Teachers	3
MATH 4753	Applied Statistical Methods	3
Advanced MATH or Specialized Elective		3-6
Credit Hours		12-15
Second Semester		
EDUC 4060	Teaching Experiences in the Secondary School	10
ILAC 4243	Student Teaching Seminar	3
Credit Hours		13
Total Credit Hours		124

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	3
HIST 1483	United States, 1492 to 1865	3
or HIST 1493	or United States, 1865 to the Present	
Biological Sciences, one course in BIOL/MBIO/PBIO		4-5
COMM 1113	Principles of Communication (Core I)	3
or COMM 2613	or Public Speaking	
Credit Hours		16-17
Second Semester		
ENGL 1213	Principles of English Composition (Core I)	3
or EXPO 1213	or Expository Writing	
MATH 2423	Calculus and Analytic Geometry II	3
P SC 1113	American Federal Government (Core III)	3
ANTH, or PSY, or SOC (Core III)		3
Arts & Humanities (Core IV-AF)		3
Credit Hours		15
Sophomore		
First Semester		
MATH 2433	Calculus and Analytic Geometry III	3
MATH 2513	Discrete Mathematical Structures	3