

**REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN EDUCATION
AND CERTIFICATION IN FIELD OF STUDY
JEANNINE RAINBOLT COLLEGE OF EDUCATION — THE UNIVERSITY OF OKLAHOMA**

For Students Entering the Oklahoma State System for Higher Education
Summer 2014 through Spring 2015

| Credit Hours and Grade Average Requirements | |
|--|------|
| Minimum Hours for Graduation. | 124 |
| Minimum Overall Grade Point Average | 2.75 |
| Minimum OU Residence Grade Point Average | 2.75 |
| Minimum Grade Point Average in Major | 2.75 |
| Minimum Requirements for Certification: | |
| Undergraduate Degree PLUS Certification Exams | |

Science Education: Physics

B835 P???

Bachelor of Science
in Education

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

| GENERAL EDUCATION REQUIREMENTS—41 Hours | | | MAJOR REQUIREMENTS | | | |
|--|--|--------|---|-------|---|--------|
| These General Education courses meet minimum University, College and State General Education Requirements. | | | PROFESSIONAL EDUCATION 33 Hours | | SPECIALIZED EDUCATION 50 Hours | |
| Areas | Courses | Hours | Courses | Hours | Courses | Hours |
| Communication Skills-9 hours | ENGL 1113, Prin. of English Composition (Core I) | 3 | EIPT 3473, Educational Psychology of Childhood and Adolescence | 3 | Biological Science - satisfied under gen Ed BIOL 1114, Introductory Zoology | |
| | ENGL 1213, Prin. of English Composition (Core I), or EXPO 1213, Expository Writing | 3 | *EIPT 3483, Cognition, Motivation, & Classroom Management for Teachers | 3 | Chemistry - 10 hours †CHEM 1315, General Chemistry CHEM 1415, General Chemistry | 5 5 |
| Mathematics-6 hours | COMM1113, Prin. of Communication (Core I), or COMM2613, Public Speaking | 3 | EDSP 3054, Understanding & Accommodating Students with Exceptionalities | 4 | Physics - 13 hours †PHYS 1205, Intro. Physics I for majors, or | 5 |
| | MATH 1823, Calculus & Analytic Geometry I, or higher (Core I) | 3 | EIPT 3011, Productivity Tools for Education (may be satisfied by competency exam; if not satisfied by exam, this additional hour is required) | 0-1 | PHYS 2414, Phys. for Life Sci. Majors, and PHYS 1311 Physics Lab I | |
| U.S. History & Government-6 hours | MATH 2423, Calculus & Analytic Geometry II, or higher | 3 | EIPT 3043, Learning with Educational Technologies | 3 | PHYS 1215, Intro. Physics II for Majors, or | 5 |
| | HIST 1483, U.S. 1492-1865, or (Core IV) HIST 1493, U.S. 1865-Present and P SC 1113, American Federal Government (Core III) | 3 3 | *EDS 4003, Schools in American Cultures | 3 | PHYS 2424, Phys. for Life Sci. Ma jors, and PHYS 1321, Physics Lab II | 3 |
| Natural Science-8 hours | BIOL 1114, Introductory Zoology (Core II-NL) | 4 | EDSC 4970, Environmental Education | 2 | Earth & Space Science - 7 hours †ASTR 1504, Astronomy: Exploring the Universe, or | 4 |
| | GEOL 2014, The Earth System (Core II-LAB) | 4 | *EDSC 4513, Teaching Science in Secondary Schools | 3 | †ASTR 1514, Astronomy: Exploring the Universe with Lab | |
| Arts & Humanities-6 hours | Any one course chosen from Core IV-Artistic Forms. | | EDSC 4533, Advanced Methods in Science teaching (Capstone) | 3 | GEOG 3253, Environ. Conserv. (Gen Ed) | |
| | _____ (Core IV-AF) | 3 | *EDUC 4060, Teaching Experiences in the Secondary School | 9 | GEOL 2014, The Earth System (Gen Ed) | |
| | HSCI 3013, History of Science to Newton, or HSCI 3023, History of Science Since the 17th C. (Core IV-WC) | 3 | *These courses require field experience. | | GPHY 1103, Adventures in Geophysics | 3 |
| Contemporary World Culture-3 hours | | | Students must maintain a minimum of 2.75 grade point average with no grade less than a C in the Professional Education courses for graduation. | | Statistics - 3 hours PSY 2003, Understanding Statistics | 3 |
| | GEOG 3253, Environmental Conservation (Core III-SS) | 3 | | | Mathematics - 3 hours MATH 1823, Calculus & Analytic Geometry I or higher (Gen Ed) MATH 2423, Calculus & Analytic Geometry II or higher (Gen Ed) MATH 2433, Calculus & Analytic Geometry III or higher | 3 |
| Foreign Language-0-10 hours | Students must meet both requirements outlined below: University-Wide General Education Requirement: Two college- level courses in a single foreign language are required; may be satisfied by successful completion of 2 years in a single foreign language in high school. (Core I), and, Oklahoma State Regents for Higher Education Requirement: Teacher candidates must demonstrate conversational skills at a novice-high level in a language other than English. *The novice-high level language requirement may be satisfied by classical, modern, Native or American Sign Language. | 0-10 | | | Research - 2-3 hours PHYS 2303, Electronics, or PHYS 3302, Advanced Lab I PHYS 3990, Independent Study, or PHYS 4990, Independent Study | 2-3 |
| | HSCI 3313, Science & Technology in Asian History, or HSCI 3453, Science & Civilization in Islam, or HSCI 3483, Technology, Politics, & International Development (Core IV) | 3 | | | Electives - 11-12 hours Selected from subject area in which certification is sought. Electives may be selected from the list below, or other appropriate courses approved by adviser. ASTR 1523, Life in the Universe ASTR 2513, Introductory Astrophysics ASTR3103, Stars GIS 2023, Intro. to Spatial Thinking & Computer Mapping GIS 4013, Fundamentals of GIS GIS 4133, Fundamentals of Remote Sensing GIS 4353, Survey of Geospatial Information Technologies HSCI - Upper Division, and adviser approval MATH 2443, Calculus & Analytic Geometry IV MATH 3333, Linear Algebra I C S 1313, Programming for Nonmajors, or C S 1323, Intro. to Computer Programming, and METR 2013, Intro. to Meteorology, and METR 2011, Intro Meteorology I Lab PHYS 1453, Musical Acoustics | 11-12 |
| Senior Capstone | EDUC 4533—Satisfied under Professional Education requirements. (Capstone, Core V) | | | | | |

The 41 hours above, along with 14 hours noted by † in the Specialized Education column, comprise the 55 hours required for Liberal Arts & Sciences.

A minimum of 40 hours must be completed at the upper-division level.

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

