EARTH SCIENCE, INSTRUCTIONAL CERTIFICATION: TEACHER CERTIFICATION IN EARTH SCIENCE - PRESCHOOL THROUGH GRADE 12 - GRADUATE

Program Requirements

Teaching Field Requirements

Earth Science Core
- EAES 105 Physical Geology: 4 credits
- EAES 220 Mineralogy: 4 credits
- EAES 240 Historical Geology: 4 credits
- EAES 302 Structural Geology: 3 credits
- EAES 320 Igneous Metamorphic Petrology: 4 credits
- EAES 441 Stratigraphy: 3 credits

Additional Earth Science Courses
- EAES 201 Understanding Weather and Climate: 4 credits
- EAES 250 Introduction to Marine Sciences: 4 credits
- EAES 280 Principles of Land Use: 3 credits

Collateral Science Courses
- BIOL 113 Principles of Biology II: 4 credits
- CHEM 120 General Chemistry I: 4 credits
- CHEM 121 General Chemistry II: 4 credits
- MATH 116 Calculus A: 4 credits
- PHYS 193 College Physics I: 4 credits
- PHYS 194 College Physics II: 4 credits
- MATH 111 Applied Precalculus: 4 credits
  or MATH 112 Precalculus Mathematics: 4 credits

Teaching Methods
- BIOL 503 Teaching Science in Secondary Schools: 4 credits

Total Credits: 66

Code | Title                                                                 | Credits |
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EDFD 505 | Teaching, Democracy, and Schooling                                    | 3       |
  or SASE 505 | Teaching, Democracy, and Schooling                                    | 3       |
SASE 518 | Technology Integration in the Classroom                               | 1       |
EDFD 509 | Sociocultural Perspectives on Curriculum and Assessment               | 3       |
  or SASE 509 | Sociocultural Perspectives on Curriculum and Assessment               | 3       |
EDFD 516 | Meeting the Needs of English Language Learners                        | 1       |
  or SASE 516 | Meeting the Needs of English Language Learners                        | 1       |
SASE 517 | Inclusive Classrooms in Middle and Secondary Schools                  | 1       |
READ 501 | Techniques of Reading Improvement in the Secondary School             | 3       |
EDFD 519 | Assessment for Authentic Learning                                     | 3       |
  or SASE 519 | Assessment for Authentic Learning                                     | 3       |
SASE 526 | Seminar in Inclusive Pedagogy                                         | 3       |
SASE 527 | Clinical Practice I                                                  | 3       |
SASE 514 | In-Service Graduate Clinical Practice II                               | 6       |
  or SASE 529 | Clinical Practice II                                                  | 3       |
SASE 543 | Advanced Seminar in Inclusive Pedagogy                                | 3       |

Total Credits: 36

1. May be completed by examination.
2. SASE 514 is for in-service teachers.

Additional Requirements for State Certification

The following additional requirements must be met prior to student teaching. Upon admission to the program, the student’s submitted transcripts are evaluated to determine if any of these requirements have been fulfilled by previous coursework. In such cases, the requirement(s) appears on the degree audit as being waived.

- CMST 101 or Speech Challenge Exam or documented & approved experience
- Physiology & Hygiene - free test at county office of education or BIOL/HLTH course
- Educational Psychology - EDFD 582 or PSYC 560
- Psychology or equivalent undergraduate course work

Note: Certification requirements are subject to change.