



Secondary Science Teacher Certification Requirements

Earth and Space Science

Undergraduate Program

Candidate: _____

Advisor: _____

Initial GPA: _____ Campus ID: _____

Date: _____ Date: _____ Date: _____

Date: _____ Date: _____ Date: _____

| <u>Astronomy Requirements:</u> | Semester taken | Grade |
|---|----------------|-------|
| PHYS 105 Ideas in Astronomy | _____ | _____ |
| <u>Biological Science Requirements:</u> | | |
| BIOL 100 Concepts of Biology | _____ | _____ |
| BIOL 100L Concepts of Experimental Biology | _____ | _____ |
| BIOL 233 Nutrition for Health Professions OR | _____ | _____ |
| BIOL 301 Evolution and Ecology | _____ | _____ |
| <u>Chemistry Requirements:</u> | | |
| CHEM 123 Introduction to General Organic and Biochemistry I | _____ | _____ |
| CHEM 124 Introduction to General Organic and Biochemistry I | _____ | _____ |
| CHEM 124L General Organic and Biochemistry Lab | _____ | _____ |
| <u>Mathematics Requirements:</u> | | |
| MATH 150 Pre-calculus Mathematics | _____ | _____ |
| MATH 151 Calculus and Analytic Geometry I OR | _____ | _____ |
| MATH 155 Elementary Calculus I | _____ | _____ |
| <u>Physics Requirements:</u> | | |
| PHYS 111 Basic Physics I | _____ | _____ |
| PHYS 112 Basic Physics II | _____ | _____ |
| <u>History or Philosophy of Science:</u> | | |
| HIST 445 History of Science to 1700 OR | _____ | _____ |
| HIST 446 History of Science since 1700 OR | _____ | _____ |
| PHIL 372 Philosophy of Science | _____ | _____ |
| <u>Interdisciplinary Studies Requirements:</u> | | |
| INDS 430 Seminar in Interdisciplinary Studies | _____ | _____ |
| INDS 490 Capstone Project in Interdisciplinary Studies | _____ | _____ |
| <u>Scientific Skills and Technology Requirements:</u> | | |
| EDUC 302 Basic Scientific Processes | _____ | _____ |
| EDUC 465 Computer Literacy | _____ | _____ |
| EDUC 467 Integrating Technology and Resources into the Curriculum | _____ | _____ |
| <u>Geography and Geology Requirements:</u> | | |
| GES 120 Environmental Science and Conservation | _____ | _____ |
| GES 110 Physical Geography AND | _____ | _____ |
| At least 12 credits from the following: | | |
| GES 310 Geomorphology | _____ | _____ |
| GES 311 Weather and Climate | _____ | _____ |
| GES 312 Climatic Change | _____ | _____ |
| GES 313 Biogeography | _____ | _____ |
| GES 318 Natural Environment of the Chesapeake Bay | _____ | _____ |

(M) (R) (W) (C)

PRAXIS I _____
PRAXIS II _____

A composite score of 527 on PRAXIS I or qualified SAT or ACT score is required for admission. PRAXIS II must be passed for program completion and certification. Students may be admitted provisionally without passing PRAXIS I but are required to successfully complete PRAXIS I by the end of the first semester of study in the program.

Professional Education Requirements:

A GPA of 2.75 is required for program entry. A GPA of 3.0 is required for entering internship. Students must attain a B or better in all required education courses at the 400 level.

| | Semester | Grade |
|--|----------|-------|
| EDUC 310 Inquiry into Education | _____ | _____ |
| EDUC 311 Psychological Foundations of Education | _____ | _____ |
| EDUC 388 Inclusion and Instruction | _____ | _____ |
| EDUC 410 Reading in the Content Area I | _____ | _____ |
| EDUC 411 Reading in the Content Area II | _____ | _____ |
| EDUC 412 Analysis of Teaching and Learning | _____ | _____ |
| EDUC 427 Secondary Science Methods | _____ | _____ |
| EDUC 456 Internship in Secondary Education | _____ | _____ |
| EDUC 457 Internship Seminar in Secondary Education | _____ | _____ |

Comments:

Notes:

Students in the teacher certification program should see their academic major advisor and their education advisor every semester. The education advisor is responsible for the requirements of the teacher certification program only. All major and University requirements should be confirmed with your academic major advisor.