

NAME: \_\_\_\_\_

ID#: \_\_\_\_\_

Bulletin year: \_\_\_\_\_

## Earth & Space Science Education 7-12 Effective 2015-2016 academic year

### I. ACHIEVEMENT CENTERED EDUCATION (ACE) (27 hrs)

All UNL students are required to complete a minimum of 3 hours of approved course work in each of the 10 designated ACE areas.

ACE #1 *Written Texts Incorporating Research & Knowledge Skills*  
ENGL 150, 151, or 254 (3 hrs) \_\_\_\_\_

ACE #2 *Communication Skills*  
COMM 109, 209, 210, or 286 (3 hrs) \_\_\_\_\_

ACE #3 *Mathematical, Computational, Statistical, or Formal Reasoning Skills*  
MATH 106, STAT 218 or EDPS 459 (3 hrs) \_\_\_\_\_

ACE #4 *Study of Scientific Methods & Knowledge of Natural & Physical World*  
ASTR 103 (3 hrs) ✓✓✓✓✓

ACE #5 *Study of Humanities*  
(Any) (3 hrs) \_\_\_\_\_

ACE #6 *Study of Social Sciences*  
EDPS 251 (3 hrs) ✓✓✓✓✓

ACE #7 *Study of the Arts to Understand Their Context & Significance*  
(Any) (3 hrs) \_\_\_\_\_

ACE #8 *Ethical Principles, Civics, Stewardship & Their Importance to Society*  
TEAC 331 (3 hrs) ✓✓✓✓✓

ACE #9 *Global Awareness, Knowledge of Human Diversity through Analysis of an Issue*  
TEAC 330 (3 hrs) ✓✓✓✓✓

ACE #10 *Integration of Abilities, Capacities in a Creative or Scholarly Product*  
TEAC 403B (3 hrs) ✓✓✓✓✓

Additional ACE course work

Select 4 additional courses from ACE Outcomes 1-10

GEOL 101 (4 hrs) ✓✓✓✓✓  
GEOL 109 (3 hrs) ✓✓✓✓✓  
LIFE 120 (4 hrs) ✓✓✓✓✓  
EDPS 457 (3 hrs) ✓✓✓✓✓

### II. PRE-PROFESSIONAL EDUCATION (13 hrs)

No grade lower than "C"

All courses must be for a grade (not Pass/No Pass) with the exception of EPDS 297. TEAC 331 & EDPS 251 must average a 2.5 GPA

TEAC 331 School and Society \_\_\_\_\_ (3 hrs) \_\_\_\_\_

EDPS 251 Adolescent Development for Ed \_\_\_\_\_ (3 hrs) \_\_\_\_\_

EDPS 297 Practicum (take with EDPS 251) \_\_\_\_\_ (1 hr) \_\_\_\_\_

TEAC 330 Multicultural Ed \_\_\_\_\_ (3 hrs) \_\_\_\_\_

TEAC 259 Instructional Technology \_\_\_\_\_ (3 hrs) \_\_\_\_\_

### III. ENDORSEMENT (37-38 hrs)

No grade lower than "C"

Students must complete a minimum of 24 hours in earth & space science from the following list plus a minimum of 4 hours each in biology, chemistry, and physics.

Select one of the following: \_\_\_\_\_ (3-4 hrs) \_\_\_\_\_

ASTR 103 Descriptive Astronomy **OR**

ASTR 204/224 Astrophysics w/lab

Pre-requisite: Phys 211/221 and Math 107

GEOL 101 Physical Geology \_\_\_\_\_ (4 hrs) \_\_\_\_\_

GEOL 109 Oceanography \_\_\_\_\_ (3 hrs) \_\_\_\_\_

GEOL 211 Sedimentology and Stratigraphy \_\_\_\_\_ (3 hrs) \_\_\_\_\_

(Prerequisite: Geol 210)

METR 100 Weather and Climate \_\_\_\_\_ (4 hrs) \_\_\_\_\_

(Pre-requisite: Math 101)

GEOL 106 Environmental Geology **OR**

NRES 108 Earth's Energy Resources **OR**

SOIL 153 Soil Resources \_\_\_\_\_ (3-4 hrs) \_\_\_\_\_

Select one of the following: \_\_\_\_\_ (3-4 hrs) \_\_\_\_\_

GEOL 110 Geological Natural Hazards **OR**

GEOL 115 Earth's Energy Resources **OR**

GEOL 160 Geoscience Fundamentals in the Field

LIFE 120/120L Fundamentals of Biology I w/lab \_\_\_\_\_ (4 hrs) \_\_\_\_\_

Select one of the following: \_\_\_\_\_ (4 hrs) \_\_\_\_\_

CHEM 109 General Chemistry I **OR**

CHEM 113 Fundamental Chemistry I

Select one of the following: \_\_\_\_\_ (5 hrs) \_\_\_\_\_

PHYS 141 Elementary General Physics I **OR**

PHYS 211/221 General Physics I w/lab **OR**

MSYM 109/109L Physical Principles in Agriculture and Life Sciences

Acceptance into the Science Teacher Education Program is required before enrollment in the Professional Education courses. 80% of the endorsement courses must be completed prior to enrolling in TEAC 451V. The professional education sequence begins spring semester, continues in the fall semester, and is followed by a semester of student teaching.

### Professional Education Courses (27 hrs)

All grades must be a minimum of "C+" or above

#### Methods

TEAC 451V Teaching Principles \_\_\_\_\_ (3 hrs) \_\_\_\_\_

TEAC 452V Curriculum Principles \_\_\_\_\_ (3 hrs) \_\_\_\_\_

TEAC 397V Practicum \_\_\_\_\_ (3 hrs) \_\_\_\_\_

EDPS 457 Learning and Motivation \_\_\_\_\_ (3 hrs) \_\_\_\_\_

SPED 401B Mainstreaming \_\_\_\_\_ (3 hrs) \_\_\_\_\_

#### Student Teaching

TEAC 497V Student Teaching \_\_\_\_\_ (9 hrs) \_\_\_\_\_

TEAC 403B Student Teaching Seminar (ACE 10) \_\_\_\_\_ (3 hrs) \_\_\_\_\_

#### Electives (0-27/28 hrs)

\_\_\_\_\_ (3 hrs) \_\_\_\_\_

\_\_\_\_\_ (3 hrs) \_\_\_\_\_