

Biology Education 7-12 Effective 2018-2019 academic year

I. ACHIEVEMENT CENTERED EDUCATION (ACE)

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*
TEAC 259 _____ (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*
LIFE 120/120L _____ (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) √√√√√

II. PRE-PROFESSIONAL EDUCATION

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) _____

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.

Electives (19-21) (to meet 120 hour requirement for graduation)

III. ENDORSEMENT

No grade lower than "C"

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

LIFE 120/120L Fundamentals of Biology I w/lab _____ (4 hrs) _____
LIFE 121/121L Fundamentals of Biology II w/lab _____ (4 hrs) _____

BIOS 112 Intro to Zoology w/lab **OR**
ASCI 100 Fundamentals of Animal Biology and Industry (4 hrs) _____

BIOS 109 General Botany **OR**
AGRO 131/132 Plant Science w/lab (HORT 131/133) _____ (4 hrs) _____

ASCI 240 Anatomy & Physiology of Domestic of Animals **OR**
BIOS 213/213L Human Physiology w/lab _____ (4-6 hrs) _____

Select one of the following: _____ (4-6 hrs)

BIOS 205 Genetics, Molecular and Cellular Biology Lab **AND**
BIOS 206 General Genetics **OR**
AGRO 215 Genetics

Select one of the following Ecology choices: _____ (3-4 hrs)

BIOS 207 Ecology and Evolution **OR**
NRES 211 Intro to Conservation Biology

Select one of the following Chemistry choices: _____ (4 hrs)

CHEM 109 General Chemistry I **OR**
CHEM 113 Fundamentals of Chemistry I

Select one of the following Physics choices: _____ (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

GEOL 101 Physical Geology _____ (4 hrs) _____

Professional Education Courses

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

Methods

- TEAC 397V Practicum _____ (3 hrs) _____
- TEAC 413M ELL Content Area _____ (3 hrs) _____
- TEAC 451V Teaching Principles _____ (3 hrs) _____
- TEAC 452V Curriculum Principles _____ (3 hrs) _____
- SPED 401B Mainstreaming _____ (3 hrs) _____

Student Teaching

- TEAC 497V Student Teaching _____ (9 hrs) _____
- TEAC 403B Student Teaching Seminar (ACE 10) _____ (3 hrs) _____