

NAME: _____

ID#: _____ Bulletin year: _____

Chemistry Education 7-12

Effective 2017-2018 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*
ENGL150, 151, or 254 _____ (3 hrs) _____

ACE #2 *Communication Skills*
COMM 101, 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*
LIFE 120/120L _____ (4 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) _____

Electives II (to meet 120 hour requirement for graduation)

_____ (3 hrs) _____

_____ (3 hrs) _____

III. ENDORSEMENT

No grade lower than "C"

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

CHEM 109 General Chemistry I _____ (4 hrs) _____

CHEM 110 General Chemistry II _____ (4 hrs) _____

CHEM 221 Elementary Quantitative Analysis _____ (4 hrs) _____

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

CHEM 251/253 Organic Chemistry w/lab **OR**

CHEM 255/257 Biologic Organic Chemistry w/lab

CHEM 421/423 Analytical Chemistry w/lab _____ (5 hrs) _____

Offered Spring semester only

(Prerequisite: Chem 471 or 481)

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

CHEM 471 Physical Chemistry **OR**

(Prerequisite: Chem 221, Math 107)

CHEM 481 Physical Chemistry I

(Prerequisite: Chem 221, Math 208, Phys 212)

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

GEOL 101 Physical Geology _____ (4 hrs) _____

Select one of the following sequences: _____ (10 hrs) _____

A. Non-calculus based physics **OR**

PHYS 141 Elementary General Physics I _____ (5 hrs) _____

PHYS 142 Elementary General Physics II _____ (5 hrs) _____

B. Calculus based physics

PHYS 211/221 General Physics I _____ (5 hrs) _____

PHYS 212/222 General Physics II _____ (5 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.

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) _____