

Achievement-Centered Education (ACE)
Requirements for Secondary Sciences Grades 7 – 12
ACE courses may be used to satisfy education and endorsement requirements.
See undergraduate bulletin for list of ACE courses.

Achievement – Centered Education (ACE)	Course Taken Term and Grade Earned	Suggested Course(s)	Suggested Courses that if taken will meet an education or endorsement requirement as well as the ACE requirement
ACE 1. Written Communication		ENGL 101, 150, 151 or 254	
ACE 2. Communication Competence		COMM 109, 209 or 210	
ACE 3. Math, Statistics		MATH 106, STAT 218 or EDPS 459	
ACE 4. Scientific Method			ASTR 103, CHEM 109, 110, GEOL 103, 115, METR 200, PHYS 141, 142, 211/221, 212/222
ACE 5. History/Humanities			
ACE 6. Human Behavior			EDPS 251, 457
ACE 7. Arts			
ACE 8. Ethics			TEAC 331
ACE 9. Global Awareness			TEAC 330
ACE 10. Integration			TEAC 403B

Additional ACE Course Work Requirements

These may double dip with course work in the education and endorsement that are ACE courses.

- o **Speech course: COMM 109, 209, 210 (ACE 2 courses) or COMM 205 (ACE 7 course).** You may choose to meet the speech course requirement and an ACE 2 or ACE 7 requirement with one course.

- o **Two ACE courses at the 300/400 level. TEAC 330, Teac 331, EDPS 457, and TEAC 403B are courses that meet program requirements, ACE requirements, and also may satisfy this requirement.**
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- o **Four additional ACE courses for a total of 14 ACE courses.** You may choose to select ACE courses above that meet education or endorsement requirements
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Advising Guide for Chemistry 7-12 Certification

This advising guide is for students on the following academic bulletins: 2013/2014; 2014/2015

This advising guide and your personal long range planning guide are designed to accompany the Degree Audit. While every attempt has been made to accurately list all course requirements, please refer to the Undergraduate Bulletin and Degree Audit.

Last updated May, 2014 - BJ

Achievement-Centered Education (ACE) requirements are found in the undergraduate bulletin.

Pre-Professional Education Courses (13 hrs)

TEAC 331	School and Society (Sophomores +)	3 hrs
EDPS 251	Adolescent Development for Ed	3 hrs
EDPS 297	Practicum (take with EDPS 251)	1 hr
TEAC 259	Instructional Technology	3 hrs
TEAC 330	Multicultural Education (Sophomores +)	3 hrs

Chemistry Endorsement (42 hrs)

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 (Math 103 or Math Placement Exam Math 104 or 106)	4 hrs
CHEM 110 (Chem 109)	General Chemistry II	4 hrs
CHEM 221 (Chem 110)	Elementary Qualitative Analysis	4 hrs

<u>Select one of the following:</u>		4 hrs
CHEM 251/253 (Chem 110)	Organic Chemistry w/lab	
CHEM 255/257 (Chem 110)	Biologic Organic Chemistry w/lab	

CHEM 421/423 (Chem 471 or 481)	Analytical Chemistry w/lab Offered Spring semester only	5 hrs
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<u>Select one of the following:</u>		3-4 hrs
CHEM 471 (Chem 221, Math 106)	Physical Chemistry	
CHEM 481 (Chem 221, Math 208, Phys 212)	Physical Chemistry I	
CHEM 131	Science of Food	

LIFE 120/120L	Fundamentals of Biology I w/lab	4 hrs
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GEOL 101	Physical Geology	4hrs
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<u>Select one of the following sequences:</u>		10 hrs
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A. Non-calculus based physics

PHYS 141	Elementary General Physics I
PHYS142	Elementary General Physics II

B. Calculus based physics

PHYS 211/221	General Physics I
PHYS 212/222	General Physics II

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)

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

Beverly Jensen, Ph.D., Academic Advisor
College of Education and Human Sciences
University of Nebraska-Lincoln
Email: bjensen1@unl.edu
Phone: (402) 472-0571