



Student Name:

UID:

State of Iowa approved preparation program for two or more of endorsement numbers: 151 Biology 5-12, 152 Chemistry 5-12, 153 Earth Science 5-12; 156 Physics 5-12, 185 All Science 5-12, or 1541 Basic Science 5-12 available to students who have or are completing a bachelor's degree in the sciences, or equivalent.

Requirements

- [Admission to the Teacher Education Program](#)
- Completion of the professional education courses listed below, as below.
- Completion of science content course requirements as listed below.

Science Education TEP Professional Education Course Requirements

Complete the following three courses in the first semester of enrollment

Course	Former	Course Title	Credit	Session/Substitute
EDTL:3091		Sec Ed Orientation & Classroom Management	3 s.h.	
EDTL:3095	07S:195	Teaching Reading Secondary Content Areas	1 s.h.	
EDTL:3002	07E:102	Technology in the Classroom	2 s.h.	

Complete all of the following (May be completed prior to TEP admission)

Course	Former	Course Title	Credit	Session/Substitute
EPLS:3000	07B:103	Foundations of Education	3 s.h.	
EDTL:4900	07U:100	Foundations of Special Education	3 s.h.	
PSQF:1075	07P:075	Educational Psychology and Measurement	3 s.h.	

Complete the following course

Course	Former	Course Title	Credit	Session/Substitute
EPLS:4180	07B:180	Human Relations for the Classroom Teacher	3 s.h.	

Methods and Practicum (Complete all of the following)

Complete the following course (Fall only)

Course	Former	Course Title	Credit	Session/Substitute
EDTL:4751	07S:151	Science Teaching & Practicum Early Learners	3 s.h.	

Complete the following two courses in the same semester (Spring only)

Course	Former	Course Title	Credit	Session/Substitute
EDTL:4752	07S:152	Methods of Teaching Science	3 s.h.	

Complete the following two courses in the same semester (Fall only)

Course	Former	Course Title	Credit	Session/Substitute
EDTL:4753	07S:153	Instructional Issues in Teaching Science	3 s.h.	
EDTL:4779	07S:179	Secondary School Science Practicum	2 s.h.	

Student Teaching (Register for section 0091 of all three courses)

Course	Former	Course Title	Credit	Session/Substitute
EDTL:4087	07S:187	Seminar Curriculum Student Teaching	3 s.h.	
EDTL:4091	07S:191	Observe & Lab Prac in Secondary School	6 s.h.	
EDTL:4092	07S:192	Observe & Lab Prac in Secondary School	6 s.h.	

Faculty may modify student teaching requirements for students completing additional education programs.

College level Mathematics (Choose one course in consultation with adviser)

Course	Former	Course Title	Credit	Session/Substitute

Science Education

Complete the following

Course	Former	Course Title	Credit	Session/Substitute
SIED:4135	097:135	The Nature of Science	3-4 s.h.	

Societal and Educational Applications (Complete two of the following four)

Course	Former	Course Title	Credit	Session/Substitute
SIED:4102	097:102	Soc Ed App of Earth Sci & Envir Sci (Fall only)	3-4 s.h.	
SIED:4103	097:103	Soc Ed App of Biological Sciences (Fall only)	3-4 s.h.	
SIED:4105	097:105	Soc Ed App of Physical Sciences (Spring only)	3-4 s.h.	
SIED:4106	097:106	Soc Ed App of Chemical Concepts (Spring only)	3-4 s.h.	

Societal and Educational Applications courses may also be counted below as science content.

Science Content Course Requirements

List below science courses already completed and future courses selected in consultation with adviser. Students completing the Science Education Bachelor of Science major instead may attach the Bachelor of Science, Science Education program guide.

Minimum science content requirements for program completion

Emphasis (primary) consisting of minimum 24 to 27 s.h. for endorsement in one of the four science subjects: Biology, Chemistry, Earth Science, or Physics; plus one of the following two options for additional science:

- Additional Emphasis Area: Minimum 15 s.h. for endorsement in at least one of the other three science subjects, not the primary Emphasis subject; or
- All Science Added Endorsement Program 5-12: Minimum 9 s.h. in each of the other three science subjects, not the primary Emphasis subject, chosen from selected courses or approved substitutions. (See next page.)

Emphasis (24 to 27 s.h.) in (circle one): Biology, Chemistry, Earth Science, or Physics

Course	Former	Course Title	Credit	Session/Substitute

Course	Former	Course Title	Credit	Session/Substitute

Courses in (circle one): Biology, Chemistry, Earth Science, or Physics. Circle: 15 / 9 s.h.

Course	Former	Course Title	Credit	Session/Substitute

Courses in (circle one): Biology, Chemistry, Earth Science, or Physics. Circle: 15 / 9 s.h.

Course	Former	Course Title	Credit	Session/Substitute

Courses in (circle one): Biology, Chemistry, Earth Science, or Physics. Circle: 15 / 9 s.h.

Course	Former	Course Title	Credit	Session/Substitute

Science Education All Science Added Endorsement Program 5-12

State of Iowa approved preparation program for endorsements 185 All Science 5-12 and 1541 Basic Science 5-12 when completed with or following the Science Education Teacher Education Program 5-12 with emphasis in Biology, Chemistry, Earth Science, or Physics.

"Student has completed a minimum of 9 s.h. courses in each of the four science subjects: Biology, Chemistry, Earth Science, and Physics. The courses meet the essential concepts and skills in each science subject area." Circle one: Yes / No.

Adviser Initial:

Adviser Approval of Program Guide

Adviser Signature:

Date:

This Program Guide is for planning and documentation of program completion. State requirements for licensure and endorsements are subject to change without notice; check with your adviser or the Office of Education Services for updated requirements. Course transfer and substitution may require syllabi or other documentation in addition to transcript. Revised 12/13/2016 TN/DLT.

For additional information, admissions procedures, or advising referral, please contact Office of Education Services, College of Education, N310 Lindquist Center, Iowa City, IA 52242, 319-335-5359, FAX: 319-335-5364, edu-educationservices@uiowa.edu, <http://www.education.uiowa.edu>