



Student Name:

UID:

State of Iowa approved preparation program for endorsement number 150, Science-basic K-8 when completed with or following an Elementary Education Teacher Education Program K-6 (endorsement 102). The holder of this endorsement is authorized to teach science in kindergarten through grade eight.

Requirements

- Completion of minimum of two courses in methods of teaching science, as below; and
- Completion of minimum of two, from a choice of four, courses in Societal and Educational Applications of Science; and
- Completion of minimum 24 semester hours in science, to include courses in physical science, biological science, and earth and space science, from the courses listed below or approved substitutions.

Science Education Course Requirements

Methods of Teaching Science

Complete both of the following two courses (Both are required for Elementary Education TEP)

Course	Course Title	Credit	Session/Substitute
EDTL:3165	Elementary Science Methods I	3 s.h.	
EDTL:3166	Elementary Science Methods II	3 s.h.	

Societal and Educational Applications of Science (Complete at least two)

Course	Course Title	Credit	Session/Substitute
SIED:4105	Soc & Ed Applicatns Physical Sciences	3-4 s.h.	
SIED:4106	Soc & Ed Applicatns of Chem. Concepts	3-4 s.h.	
SIED:4103	Soc & Ed Applicatns of Biological Sciences	3-4 s.h.	
SIED:4102	Soc & Ed Applicatn of Earth Sci & Envir Sci	3-4 s.h.	

Science Content Course Requirements (Complete minimum of 24 s.h. to include the following)

Biological Science (Complete minimum of 6 semester hours of the following):

Course	Course Title	Credit	Session/Substitute
SIED:4103	Soc & Ed Applicatns of Biological Sciences	3-4 s.h.	
BIOL:1261	Introduction to Botany	4 s.h.	
BIOL:1141	Introductory Animal Biology	4 s.h.	
BIOL:1140	Human Biology	4 s.h.	
BIOL:1370	Understanding Evolution	3 s.h.	
BIOL:1260	Plants and Human Affairs	3 s.h.	

Physical Science (Complete minimum of 12 semester hours of the following):

Course	Course Title	Credit	Session/Substitute
SIED:4105	Soc & Ed Applicatns Physical Sciences	3-4 s.h.	
SIED:4106	Soc & Ed Applicatns of Chem. Concepts	3-4 s.h.	
CHEM:1050	Technology and Society	3-4 s.h.	

Course	Course Title	Credit	Session/Substitute
CHEM:1070	General Chemistry I	3 s.h.	
PHYS:1200	The Physics of Everyday Experience	3 s.h.	
ASTR:1070	Stars, Galaxies, and the Universe	3-4 s.h.	

Earth/Space Science (Complete minimum of 6 semester hours of the following):

Course	Course Title	Credit	Session/Substitute
SIED:4102	Soc & Ed Applicatn of Earth Sci & Envir Sci	4 s.h.	
EES:1030	Introduction to Earth Science	4 s.h.	
EES:1040	Evolution and History of Life	4 s.h.	
EES:1050	Introduction to Geology	4 s.h.	
EES:1070	Age of Dinosaurs	4 s.h.	
EES:1080	Introduction to Environmental Science	3-4 s.h	
EES:3080	Introduction to Oceanography	2 s.h.	
ASTR:1070	Stars, Galaxies and the Universe	3-4 s.h	
GEOG:1020	The Global Environment	4 s.h.	
GEOG:1070	Contemporary Environmental Issues	3 s.h.	

Notes

- The course ASTR:1070 Stars, Galaxies, and the Universe may be used to meet requirements for either Physical Science or Earth/Space science, but not both.

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 Student Services for updated requirements. Course transfer and substitution may require syllabi or other documentation in addition to transcript. Revised 12/23/2015 DLT version 2.4.

For additional information, admissions procedures, or advising referral, please contact Office of Student 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>