

Student Name:

UID:

The Bachelor of Science with major in Science Education is a degree awarded by the College of Liberal Arts and Sciences (CLAS). This major, with emphasis in Biology, Chemistry, Earth Science, or Physics, is available to all students enrolled in CLAS, but is designed -- when completed in conjunction with a Science Education Teacher Education Program -- to satisfy content course requirements for teaching two or more science subjects in grades 5-12.

A fifth emphasis, Bachelor of Science in Science Education (All Science) is available only to students who have been [admitted to the Teacher Education Program](#).

Requirements

- Completion of 7-8 semester hours in Science Education; and
- Completion of a minimum 24-27 semester hours in Physics, as listed below, and
- Completion of a minimum 15 semester hours in Biology, Chemistry, or Earth Science; and
- Completion of College of Liberal Arts and Sciences [requirements for a bachelor's degree](#).

Science Education Course Requirements

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 one of the following three)

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:4106	097:106	Soc Ed App of Chemical Concepts (Spring only)	3-4 s.h.	

Physics Emphasis Course Requirements (Minimum 24-27 s.h.)

Foundations (Complete one of the three following options consisting of two courses)

Foundations Option 1 (Complete both of the following courses) or

Course	Former	Course Title	Credit	Session/Substitute
PHYS:1611	029:081	Introductory Physics I (Majors)	4 s.h.	
PHYS:1612	029:082	Introductory Physics II (Majors)	4 s.h.	

Foundations Option 2 (Complete both of the following courses) or

Course	Former	Course Title	Credit	Session/Substitute
PHYS:1511	029:011	College Physics I (Algebra-based)	4 s.h.	
PHYS:1512	029:012	College Physics II (Algebra-based)	4 s.h.	

Foundations Option 3 (Complete both of the following courses).

Course	Former	Course Title	Credit	Session/Substitute
PHYS:1701	029:027	Physics I (Calculus-based)	4 s.h.	
PHYS:1702	029:028	Physics II (Calculus-based)	4 s.h.	

Complete one of the following two courses

Course	Former	Course Title	Credit	Session/Substitute
PHYS:2703	029:029	Physics III (Calculus-based, Fall)	4 s.h.	
PHYS:3710	029:115	Intermediate Mechanics (Spring)	3 s.h.	

Chemistry (Choose minimum 15 s.h. from the following or approved substitutes)

Course	Former	Course Title	Credit	Session/Substitute
CHEM:1110	004:011	Principles of Chemistry I	4 s.h.	
CHEM:1120	004:012	Principles of Chemistry II	4 s.h.	
CHEM:2210	004:121	Organic Chemistry I	3 s.h.	
CHEM:2220	004:122	Organic Chemistry II	3 s.h.	
CHEM:2021	004:021	Basic Measurements	3 s.h.	
SIED:4106	097:106	Soc Ed App of Chemical Concepts (Spring only)	3-4 s.h.	

Earth Science (Choose minimum 15 s.h. from the following or approved substitutes)

Course	Former	Course Title	Credit	Session/Substitute
EES:1040	012:004	Evolution and History of Life	4 s.h.	
EES:1030	012:003	Introduction to Earth Science	4 s.h.	
EES:1050	012:005	Introduction to Geology	4 s.h.	
EES:1080	012:008	Introduction to Environmental Science	4 s.h.	
EES:3000	012:100	Geologic Training Assignment (Summer only)	3 s.h.	
EES:3070	012:107	Marine Ecosystems (Fall only)	3 s.h.	
SIED:4102	097:102	Soc Ed App of Earth Sci & Envir Sci (Fall only)	3-4 s.h.	

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. 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>