

Science Education

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This major prepares teachers for licenses to teach all introductory or first level science courses in the secondary schools of Illinois. Students completing the major with an emphasis in biology may teach advanced placement biology as well.

Science Education Major Requirements

To major in Science Education, the student must complete the science education core as listed below and the courses required for specialization in biology or chemistry. This major prepares teachers for licensure to teach all introductory or first level science courses in the secondary schools of Illinois. Students completing the major with an emphasis in biology may also teach advanced placement courses in biology. Students completing the major with an emphasis in chemistry may also teach advanced placement courses in chemistry. All courses for the major must be completed with a grade of C or higher.

The student must complete the major with a minimum of a 2.75 grade point average.

SCIENCE EDUCATION MAJOR REQUIREMENTS 65-68 crs.

SCIENCE EDUCATION CORE REQUIREMENTS 32 crs.

BIO 110	PRINCIPLES OF CELLULAR AND MOLECULAR BIOLOGY	(4)
BIO 111	PRINCIPLES OF ORGANISMAL AND POPULATION BIOLOGY	(4)
CHE 105	COLLEGE CHEMISTRY I	(5)
CHE 106	COLLEGE CHEMISTRY II	(5)
ES 110	EARTH AND ASTRONOMICAL SCIENCE	(3)
PHY 211	GENERAL PHYSICS I	(4)
PHY 212	GENERAL PHYSICS II	(4)
SCE 210	CONCEPTS IN SCIENCE	(3)

For a list of professional education program requirements,
see the Secondary Education section under "School of Education."

Biology Emphasis 33 crs.

The core requirements plus the following:

BIO 211	GENETICS	(4)
BIO 300	BIOMEASUREMENT	(3)
BIO 303	ECOLOGY	(5)
BIO 313	CELLULAR BIOLOGY	(4)
BIO 220	EVOLUTION	(3)
CHE 150	PRINCIPLES OF ORGANIC CHEMISTRY	(4)
MTH 170	STATISTICS	(4)
	ADDITIONAL BIOLOGY ELECTIVES	(6)

Chemistry Emphasis 34-36 crs.

The core requirements plus the following:

CHE 205	ORGANIC CHEMISTRY I	(5)
CHE 206	ORGANIC CHEMISTRY II	(5)
CHE 300	ANALYTICAL CHEMISTRY/CHEMICAL ANALYSIS	(5)
CHE 303	PRINCIPLES OF PHYSICAL CHEMISTRY	(4)
BCH 303	PRINCIPLES OF BIOCHEMISTRY	(4)
BIO 250	INTRODUCTION TO ENVIRONMENTAL SCIENCE	(3)
<i>or</i>		
BIO 303	ECOLOGY	(5)
MTH 210	CALCULUS I	(4)

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