

Proposal to Revise the Science with Teacher Certification, Biological Sciences Specialization Major

Changes shown in RED

The BS in Science with Teacher Certification, Biological Sciences Specialization degree program prepares students for a career as a secondary science teacher with emphasis in the biological sciences.

Requirements for the BS in Science with Teacher Certification, Biological Sciences Specialization:

1. ~~76~~ **77** Semester Hours of Major Courses

BIO 1100 - General Biology. Credits: 4

BIO 1200G - General Botany. Credits: 4

BIO 1300G - Animal Diversity. Credits: 4

BIO 2200 - Human Anatomy. Credits: 4

~~BIO 3100 - Molecular and Cell Biology. Credits: 3~~

BIO 3120 Molecular and Cell Biology. Credits: 4

BIO 3200 - Genetics. Credits: 4

BIO 3400 - Methods of Teaching Biological Sciences in High School. Credits: 3

BIO 3510 - Plant Physiology. Credits: 4

or

BIO 3520 - Animal Physiology. Credits: 4

BIO 3800 - Ecology. Credits: 4

BIO 4984 - Organic Evolution. Credits: 3

CHM 1310G - General Chemistry I. Credits: 3

CHM 1315G - General Chemistry Laboratory I. Credits: 1

CHM 1410 - General Chemistry II. Credits: 3

CHM 1415 - General Chemistry Laboratory II. Credits: 1

CHM 2730 - Quantitative Analysis. Credits: 3

CHM 3100 - Practicum in Chemistry. Credits: 1

ESC 1300G - Introduction to Earth Sciences. Credits: 4

ESC 1400G - Weather and Climate. Credits: 4

ESC 2450G - Oceanography. Credits: 3

MAT 2250G - Elementary Statistics. Credits: 4

PHY 1055G - Principles of Astronomy. Credits: 3

PHY 1056G - Principles of Astronomy Laboratory. Credits: 1

PHY 1151G - Principles of Physics I. Credits: 3

PHY 1152G - Principles of Physics I Laboratory. Credits: 1

PHY 1161 - Principles of Physics II. Credits: 3

PHY 1162 - Principles of Physics II Laboratory. Credits: 1

2. 25-31 Semester Hours in the Professional Education Core

For the regular program:

EDF 2555 - Diversity of Schools and Societies: Social and Global Perspectives. Credits: 3
EDF 4450 - Philosophy and History of Education. Credits: 3
EDP 3331 - Theories of Learning and Development for Secondary Teachers. Credits: 3
SED 2000 - Inquiry Into Teaching. Credits: 1
SED 3330 - Instructional Tasks in the Secondary School. Credits: 3
SPE 3500 - The Education of Individuals with Exceptional Learning Needs: Access to the General Curriculum. Credits: 3
STG 4000 - Multicultural/Disabilities Practicum. Credits: 1
STG 4001 - Student Teaching. Credits: 12-16

or the Following for the ISEP:

EDF 2555 - Diversity of Schools and Societies: Social and Global Perspectives. Credits: 3
SED 2000 - Inquiry Into Teaching. Credits: 1
SED 3000 - ISEP Level I. Credits: 3
SED 3100 - ISEP Level II. Credits: 3
SED 4000 - ISEP Level III. Credits: 3
STG 4001 - Student Teaching. Credits: 12-16

(Major GPA based on all biological sciences, chemistry, earth sciences, and physics courses taken at EIU.)

Rationale:

In the past, the lab portion of Molecular and Cellular Biology (BIO 3101) was taught separately from the lecture portion (BIO 3100). Students majoring in Science with Teacher Certification, Biological Sciences Specialization were required to take the lecture course but not the lab course. Approval has now been given to merge these two courses into a single course (BIO 3120). After a transition period, BIO 3100 will no longer be offered.

Effective Year/Term: Fall 2010

Date approved by the Biological Sciences Dept.: March 10, 2010

Date approved by the College of Sciences Curriculum Committee: March 12, 2010

Date approved by COTE: