

Proposed Program Revisions to the Science with Teacher Certification

Biological Sciences Specialization

**Requested Change:** Revise major requirements to allow the BIO 2210 - Anatomy and Physiology I to be used in the major core in the place of BIO 2200 Human Anatomy.

**Rationale for Change:** BIO 2200 Human Anatomy is being phased out, but an A&P I and II sequence will provide students with a much more integrated approach to human anatomy and physiology than do the current BIO2200 (Anatomy) and BIO3510 (Plant Physiology) or BIO3520 (Animal Physiology) sequence. Students taking the new course sequence are expected to be better prepared for content exams.

**Effective Date:**           **Fall 2014**

**Date of Departmental Approval:**           **December 11, 2013**

**Date of COSCC Approval:**                   January 24, 2014

**Date of COTE Approval:**

***Current Catalog***

**The BS in Science Teacher Certification with Biological Sciences Specialization Major:**

**Semester hours required for the Science with Teacher Certification: Biological Sciences Specialization:  
111**

**1. 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 3120 - Molecular and Cellular 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. 34 Hours in the Professional Education Core**

**EDF 2555G - Education in a Diverse Society: The Multilingual/Multicultural Classroom. Credits: 3**

**(May also be used to satisfy General Education (Social and Behavioral Sciences) and Diversity requirement.)**

**EDF 4550 - Critical Focus on Education. Credits: 3**

**(EDF 4450 may be substituted for EDF 4550 if taken prior to Fall 2013)**

**EDP 3331 - Theories of Learning and Development for Secondary Teachers. Credits: 3**

**SED 2000 - Inquiry Into Teaching. Credits: 2**

**SED 3330 - Instructional Tasks in the Secondary School. Credits: 4**

**SED 4330 - Literacy, Assessment, and Differentiation in Secondary Schools. 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**

**(Register for 12 semester hours)**

**Footnote:**

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

Revised Catalog Listing / Changes shown in **red** or by ~~strikeout~~

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**BIO 2220- Anatomy and Physiology II. Credits: 4**

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