

Secondary Teaching in Biology Option (2415)

*** FOR STUDENTS ENTERING SPRING 2010 OR LATER***

____ Reading Exam ____ Math Exam ____ English Placement Exam
____ Constitution Exam (or Hist 1300/130, 1310/131, or Pol Sci 1010/101)*
3 Eng 1270/127 (3 hours)
3 Eng 1280/128 (3 hours)

*Course can be used to meet Social Sciences Requirement

Foreign Language (two semesters/6 hours of one foreign language)

6 Foreign Language 1) _____ 2) _____

Humanities Choose 9 hrs from at least 2 of the following disciplines: Art, Literature, Foreign Language, Music, Philosophy, CMAT.

3 Humanities #1 _____ (CMAT 1130/113)
3 Humanities #2 _____ (Fine Arts elective) *
3 Humanities #3 _____

*** Course can be used to meet Fine Arts Requirement ; Art 200 meets both Fine Arts and Diversity requirement.

Social Sciences Choose 9 hrs from the following disciplines: Anthropology, Economics, Geography, History, Political Science, Psychology, Sociology.

3 Social Science # 1 Hist 1300/130, 1310/131, or Pol Sci 1010/101
3 Social Science # 2 Psych 1100/141
3 Social Science #3_ (Non-western or third world culture elective-see approved COE list)

Additional requirements (May be embedded = courses that “double count”)

3 Fine Arts _____ (Humanities # 3) _3_ Critical Thinking _____ (Math 1200)_
3 Diversity _____ _3_ Interdisciplinary _____

Required Supportive Courses (36 hours):

3 Math 1200/162 (College Algebra) **, #
3 Math 1210/163 (Algebra & Trigonometry) #
4 Chem 1550/155 (General Chemistry I)
4 Chem 1560/156 (General Chemistry II)
4 Chem 2500/251 (Organic Chemistry I)
4 Chem 2510/254 (Organic Chemistry II)
4 Physics 1510/151 (General Physics I)
4 Physics 1520/152 (General Physics II)
3 Phy Sci 1114/114 (Prac. Earth & Space Sci.), or Geog 1400/131 (Intro. Physical Geography)

Note: Successful completion of the Math Exam is a prerequisite for these required courses in Math, Chemistry, and Physics.

** Can be used to meet Critical Thinking Requirement

Required Biology Courses (32 hours):

Note: Successful completion of the Reading Exam is a prerequisite for 200-level courses in Biology, Botany, Physiology, and Zoology. Successful completion of the English Qualifying Exam is a prerequisite for 300-level course in those disciplines, as well as in Chemistry.

- _1__ Biol 1600 (Introduction to Biology Professions)
- _3__ Biol 1710/171 (Introduction to Biology)
- _3__ Zool 2040/204 (Biology of Animals)
- _3__ Bot 2050/205 (Biology of Algae, Plants, and Fungi)
- _3__ Biol 2550/255 (Population, Communities, and Ecosystems)
- _4__ Biol 3040/240 (Genetics)
- _4__ Psly 2040/204 (Human Physiology)
- _4__ Biol 3050/250 (Cell Biology)
- _3__ Biol 3055 (Evolutionary Biology)

3-4 Elective-lab course; recommended: Biol 3690/269 Molecular Microbiology (4 hr), Biol 4520/352 Cell Biology Lab (4 hr), Chem 4301/302) Biochemistry (4 hrs) , Biol 4725 Biol PCK (4 hr-summer)

Optional courses that are recommended: Biol 4750 Inquiry Investigations (3 hr-summer) Biol 4700 (Readings in Sci Educ. (1 hr) Zool 2050/250 Human Functional Anatomy (3 hr), Biol 4015/315 Biometrics (3 hr)

Professional Education (31 hours):

- _3__ Psych 2020 (Educational Psychology)#
- _3__ Psych 2040 (Psychology of Children and Adolescents)#
- _3__ Sp Ed 4301301 (Characteristics of Exceptional Children) #
- _2__ ELCF 1520/152 (Introduction to Teaching)#
- _3__ ELCF 2000/200 (History and Philosophy of American Education)#

The following courses require **Admission to the College of Education:**

- _3__ Sp Ed 4301301 (Characteristics of Exceptional Children) #
- _2__ ECLF 4500/353 (Principles and Practices in Secondary Education) #
- _2__ Read 4100/306 (Content in Reading for Middle Schools)#
- _3__ Biol 4630/363 (Methods in Teaching Biology) (**Spring only**)
- _1__ CAS 2630/363 (Classroom Management) (may be taken with Student Teaching)
- ___ Biol 1092/092 (Biology Content Exam Preparation to be taken within 1 yr of ISBE Exam)
- _6__ Biol 4750/375 (Student Teaching and Seminar)

indicates courses offered most summers

Admission to the College of Education:

Students must have passed the Basic Skills Test and be within 12 hours of completing Gen.Ed. requirements before applying to COE. Students must pass the ISBE Content Exam before Student Teaching. A G.P.A. of 2.5 or greater is required for admission to the COE and Student Teaching.