

East Tennessee State University – College of Arts and Sciences

Secondary Biology Education

Name: _____ SID: _____ Term Entered: _____

Advisor: _____ Degree: BA _____ BS _____ Effective Spring 2008

CHEMISTRY

CHEM 1110/11: General Chemistry I (4) _____
 CHEM 1120/21: General Chemistry II (4) _____

PHYSICS

PHYS 2010/11: General Physics I (4) _____
 PHYS 2020/21: General Physics II (4) _____

GEOLOGY/GEOGRAPHY

GEOL 1040: Physical Geography (4) _____
 GEOL 1050: Historical Geology (4) _____
 Or
 GEOG 1110: Earth Science: Weather and Climate (4) _____
 GEOG 1120: Earth Science: Landforms and Processes (4) _____

MATHEMATICS

MATH 1530: Probability and Statistics (3) _____
 MATH 1910: Calculus (4) _____

BIOLOGY CORE REQUIREMENTS

BIOL 1110/11: Biology I for Majors (4) _____
 BIOL 1120/21: Biology II for Majors (4) _____
 BIOL 1130/31: Biology III for Majors (4) T _____
 BIOL 3100: General Genetics (3) _____

MOLECULAR LEVEL (One Course)

BIOL 3150/51: Cell Biology and Lab (3, 2) O _____
 BIOL 4147/4157: Biochem of Macromolecules/Lab (3, 2) _____
 BIOL 4167/4177: Biochem of Metabolism/Lab (3, 2) _____
 BIOL 4597: Recombinant DNA Lab (3) T _____
 And
 BIOL 4647: Molecular Biology (3) _____

ORGANISMAL LEVEL (One Course)

BIOL 3220: Comparative Anatomy (4) _____
 BIOL 3230: Vertebrate Embryology (4) _____
 BIOL 3260: Animal Physiology (4) _____
 BIOL 4267: Plant Development (4) _____
 BIOL 4277: Neurobiology (4) _____
 BIOL 4357: Ethology (3) O _____
 BIOL 4487: Paleobotany (4) _____
 BIOL 4767: Plant Physiology (4) O _____

POPULATION LEVEL (One Course)

BIOL 3350: Ecology (4) _____
 BIOL 3460: Invertebrate Zoology (4) _____
 BIOL 4337: Plant Systematics (4) _____
 BIOL 4357: Ethology (3) O _____
 BIOL 4360: Evolution (3) W, O _____
 BIOL 4367: Systems Ecology (3) T _____
 BIOL 4737: Conservation Biology (4) O _____
 BIOL 4747: Population Genetics (4) T _____
 BIOL 4867: Marine Biology (4) _____

BIODIVERSITY LEVEL (Two Courses)

BIOL 3410: Vertebrate Zoology (4) _____
 BIOL 3420: Plant Biology (4) W, O _____
 BIOL 3450: Algae and Fungi (4) _____
 BIOL 3460: Invertebrate Zoology (4) _____
 BIOL 3480: General Entomology (4) _____
 BIOL 4047: Ecological Fieldtrip (3) _____
 BIOL 4247: Appalachian Flora (3) _____
 BIOL 4257: Appalachian Fauna (3) _____
 BIOL 4337: Plant Systematics (4) _____
 BIOL 4450: Bryophytes, Ferns, Seed Plants (4) _____
 BIOL 4477: Ornithology (4) _____
 BIOL 4487: Paleobotany (4) _____
 HSCI 2230/31: Intro to Microbiology (4) _____
 Or
 HSCI 3320/21: General Microbiology (4) W _____

TEACHER EDUCATION MINOR

EDFN 2100: Orientation to Profession of Ed (1) _____
 EDFN 2300: Foundations for Teaching (2) _____
 EDFN 3301: Issues in Education (3) W _____
 HDAL 3310: Educational Psychology (3) _____
 SPED 2300: Exceptional Learners in School/Comm. (3) _____
 MEDA 3570: Educational Technology (2) T _____
 CUA1 4417: Secondary Curriculum/ Methodology (3) _____
 CUA1 4427: Secondary Curr/Meth Field Exp (1) _____
 SCED 4417: Teaching Science in Sec School (3) _____
 READ 4437: Reading in Middle/Sec School (3) W _____

PROFESSIONAL SEMESTER

CUA1 4580: Student Teaching (12) O _____

CREDIT SUMMARY

BIOLOGY CORE (15 hr required) _____
 BIOLOGY ADVANCED (14-18 hr required) _____
 EDUCATION (36 hr required) _____

ENTRANCE REQUIREMENTS for EDUCATION

Declaration of Intent Form _____
 PPST, ACT, or SAT Minimal Test Scores _____
 2.5 GPA in 30 earned hours _____
 Completed EDFN 2100 and 2300 with "C" or above _____
 Admission Board Interview _____

EXIT REQUIREMENTS for EDUCATION

Praxis II test scores _____
 -Principles of Learning and Teaching _____
 -Specialty Area Tests _____
 Recommendation for Licensure _____