

IF THIS PROGRAM OF STUDY WAS COMPLETED BY AN ADVISOR THROUGH THE COE, STUDENT SERVICES OFFICE, YOU MUST BRING IT WHEN STARTING YOUR FILE AND THEN KEEP IT TO USE AS A GUIDE WHEN COMPLETING YOUR BOARD APPLICATION AND STUDENT TEACHING APPLICATION.

Student Name: _____ Dept. Advisor _____

ID Number: _____ Checked by: _____

Catalog Year: 2015 - 2016

EAST TENNESSEE STATE UNIVERSITY

COLLEGE OF EDUCATION

APPROVED PROGRAM OF STUDY IN TEACHER PREPARATION FOR

BIOLOGY

7-12

415

Tennessee Licensing Endorsement

Grade Level

Code#

GENERAL EDUCATION REQUIREMENTS:

TOTAL GENERAL EDUCATION HOURS 41-42 HRS

I. COMMUNICATION (9 hours)

- _____ ENGL 1010 Critical Reading & Exp. Writ. (3)
- _____ ENGL 1020 Critical Thinking & Argument. (3)

One of the following:

- _____ SPCH 1300 Intro to Communication Studies(3)
- _____ SPCH 2300 Public Speaking (3)
- _____ SPCH 2320 Argumentation & Debate (3)

II. USING MATHEMATICS (3-4 hours)

- _____ MATH 1840 Analy. Geom and Differ Calc (3)
- _____ MATH 1530 Probability and Statistics (3)
- _____ MATH 1910 Calculus I (4)

III. SCIENCE (8 hours)

Open to Non-Science Majors only:

- _____ BIOL 1010-1011 Biology for Non-majors I (4)
- _____ BIOL 1020-1021 Biology for Non-majors II (4)
- _____ CHEM 1030 Intro. to Chem. Survey (4)
- _____ PHYS 1030 Intro. to Physics Survey (4)
- _____ CHEM 1000 Chemistry & Well-Being (4)

Open to all:

- _____ ASTR 1010 Astronomy I (4)
- _____ ASTR 1020 Astronomy II (4)
- _____ ASTR 1035 Life in the Universe (4)
- _____ BIOL 1110-1111 Biol for Sci Majors I (4)
- _____ BIOL 1120-1121 Biol for Sci Majors II (4)
- _____ BIOL 1130-1131 Biol for Sci Majors III (4) (TI)
- _____ CHEM 1110-1111 Gen. Chemistry I (4)
- _____ CHEM 1120-1121 Gen. Chemistry II (4)
- _____ GEOL 1040-1041 GEOS: Earth/Society (4)
- _____ GEOL 1050-1051 GEOS: Earth Thru Time (4)
- _____ HSCI 2010-2011 Anatomy & Phys. I (4)
- _____ HSCI 2020-2021 Anatomy & Phys. II (4)
- _____ PHYS 2010-2011 Gen. Physics I (4) (WI)
- _____ PHYS 2020-2021 Gen. Physics II (4) (WI)
- _____ PHYS 2110 Tech. Physics I - Calc. Based (5)
- _____ PHYS 2120 Tech. Physics II - Calc. Based (5)

IV. HISTORY (6 hours)

- _____ HIST 2010 The U.S. to 1877 (3)
- _____ HIST 2020 The U.S. since 1877 (3)
- HIST 2030-History of TN (3 credits) may be substituted for 3 credits of US History

V. HUMANITIES AND FINE ARTS (9 hours)

Literature – complete one of the following:

- _____ ENGL 2030 Literary Heritage (3)
- _____ ENGL 2110 American Literature I (3)
- _____ ENGL 2120 American Literature II (3)
- _____ ENGL 2210 British Literature I (3) (WI)
- _____ ENGL 2220 British Literature II (3) (WI)
- _____ ENGL 2330 World Literature (3)
- _____ ENGL 2430 European Literature (3) (WI)

Fine Arts – complete one of the following:

- _____ ARTH 2010 Art History Survey I (3)
- _____ ARTH 2020 Art History Survey II (3)
- _____ BLUE 2150 American Roots Music (3)
- _____ MUSC 1030 Introduction to Music (3)
- _____ MUSC 1035 History of Jazz (3)
- _____ DANC 1500 Dance as a Human Exp. (3)
- _____ THEA 1030 Intro. to Theatre (3)
- _____ HUMT 2310 Arts and Ideas I (3)
- _____ HUMT 2320 Arts and Ideas II (3)

Humanities Elective – complete one of the following

- _____ ENGL 3150 Lit., Ethic, & Values (3) (WI)
- _____ ENGL 3280 Mythology (3) (WI)
- _____ ENTC 3020 Technology and Society (3)
- _____ HIST 1110 World History & Civ. To 1500 (3)
- _____ HIST 1120 World History & Civ. Since 1500 (3)
- _____ PHIL 1030 Introduction to Philosophy (3)
- _____ PHIL 2020 Introduction to Ethics (3) (WI)
- _____ PHIL 2040 Phil. As Conversation (3) (OI)
- _____ PHIL 2640 Science and the Modern World (3)
- _____ RELI 2210 Intro Study of World Religions (3)

- VI. SOCIAL AND BEHAVIORAL SCIENCES (6 hours)
- ECON 1050 Econ. & Society (3) OR
 - ECON 2210 Principles of Macroeconomics (3)
 - GEOG 1012 Intro to Cult. Geography (3)
 - HDAL 2310 Developmental Psychology (3)
 - HDAL 2340 Understanding Cultural Diversity (WI) (OI) (3)
 - MCOM 1030 Intro to Mass Communications (3)
 - PSCI 1110 Political Life (3) (WI) (OI)
 - PSCI 1120 Intro. to Am. Government (3)
 - PSYC 1310 Intro. to Psychology (3)
 - SOCI 1020 Intro. to Sociology (3)
 - ANTH 1240 Intro. to Cult. Anthropology (3)
 - SOCI 2020 Social Problems (3) (WI)
 - SRVL 1020 Introduction to Service Learning (3) (WI) (OI)
 - WMST 2010 Introduction to Women's Studies (3) (WI)
 - ECON 2220 Principles of Microeconomics

ADDITIONAL GRADUATION REQUIREMENT

USING INFORMATION TECHNOLOGY (0-3 hours)

- CSCI 1100 Using Information Technology (3) OR
- Pass UIT Proficiency Exam

Writing, Oral and Technology Intensive courses reinforce academic proficiencies in a student's ability to write, speak, and use technology. All intensive courses must be taken at ETSU. Students may exceed intensive requirements but must meet minimum requirements for graduation.

ALL INTENSIVE COURSES LISTED BELOW MUST BE COMPLETED TO MEET PROGRAM AND GRADUATION REQUIREMENTS. PLEASE DISCUSS INTENSIVE REQUIREMENTS WITH YOUR MAJOR ADVISOR.

WRITING: ___ COURSES (WI) ORAL: ___ COURSE(S) (OI) TECHNOLOGY: ___ COURSE(S) (TI)

SECONDARY EDUCATION MINOR: ✓ requires admission to Teacher Education to enroll

- EDFN 2100 Orientation to the Profession of Education (1)
- EDFN 2300 Foundations for Teaching (2) (must meet test score requirement to register)
- EDFN 3301 Issues in Education (3) ✓ (WI)
- EDFN 3310 Educational Psychology (3)
- SPED 2300 Exceptional Learners in Schools and Communities (3)
- MEDA 3570 Educational Technology (2) (TI) ✓
- READ 4437 Reading Instruction in the Middle and Secondary Schools (3) (7-12) ✓ (WI)
- CUIAI 4571 Pre-Residency: Classroom and Instr Management in Middle & Secondary Schools (1) ✓ Summer
- CUIAI 4416 Residency I: Middle and Secondary School Curriculum, Methods, and Assessment (2) ✓ Fall
- CUIAI 4426 Residency I: Middle and Secondary School Curriculum and Methods Field Experience (1) ✓ Fall
- SCED 4417 Residency I: Teaching Science in Secondary Schools (3) ✓ Fall

TOTAL HOURS FOR THE MINOR: 24

PROFESSIONAL SEMESTER:

- CUIAI 4580 Residency II: Student Teaching (12) (OI) ✓ Spring

SECONDARY BIOLOGY EDUCATION SCIENCE CORE

Biological Science	8 ___
BIOL 1110/1111 Biology for Science Majors I, Lab	
BIOL 1120/1121 Biology for Science Majors II, Lab	
Chemistry	8 ___
CHEM 1110/11 Gen. Chemistry II/Lab	
CHEM 1120/21 Gen. Chemistry II/Lab	
Geology/Geography	8 ___
GEOL 1040-1041 GEOS: Earth/Society AND	
GEOL 1050-1051 GEOS: Life Thru Time	
Physics	8 or 10 ___
PHYS 2010/2011 Gen. Physics I AND	
PHYS 2020/2021 Gen. Physics II	
<u>OR</u>	
PHYS 2110 Technical Physics I AND	
PHYS 2120 Technical Physics II	
Math	
MATH 1530 : Probability & Statistics AND	7 ___
MATH 1910: Calculus I	
Basic core in science	39-41 ___
<u>BIOLOGY CONCENTRATION</u>	
BIOL 1130/1131 Biology for Science Majors III/Lab	4 ___ T(F99)
BIOL 3100 General Genetics	3 ___
BIOL 4995 Capstone: Review of Biology Concepts	1 ___
Courses below that are listed under more than one level can only be used to satisfy ONE level	
<u>Molecular Level (one course)</u>	
BIOL 3150/3151 Cell Biology (3,2)	5 ___ O(F97)
BIOL 4147/4157 Biochem of Macromolecules/Lab	5 ___ W(F99)
BIOL 4167/4177 Biochem of Metabolism and Lab	5 ___ W(S00)
BIOL 4597 Recombinant DNA Lab AND	
BIOL 4647 Molecular Biology	6 ___ T(S98)
BIOL 4747 Population Genetics	4 ___ T(F97)
<u>Organismal Level (one course)</u>	
BIOL 3220 Comparative Anatomy	4 ___
BIOL 3230 Vertebrate Embryology	4 ___
BIOL 3260 Animal Physiology	4 ___
BIOL 3460 Invertebrate Zoology	4 ___
BIOL 4267 Plant Development	4 ___
BIOL 4277 Neurobiology	4 ___
BIOL 4357 Ethology	3 ___ O(F97)
BIOL 4767 Plant Physiology	4 ___ O(S99)
BIOL 3480 General Entomology	4 ___
BIOL 4487 Paleobotany	4 ___
<u>Population Level (one course)</u>	
BIOL 3350 Ecology	4 ___
BIOL 4337 Plant Systemics	4 ___
BIOL 4357 Ethology	3 ___
BIOL 4360 Evolution	3 ___ W(F95)
BIOL 4737 Conservation Biology	4 ___ O(F97)
BIOL 4747 Population Genetics	4 ___ T(F97)
BIOL 3460 Invertebrate Zoology	4 ___
BIOL 4350 Algae & Fungi	4 ___
BIOL 4367 Modeling Biological Systems	3 ___
<u>Biodiversity Level (two courses)</u>	
BIOL 3410 Vertebrate Zoology	4 ___
BIOL 3420 Plant Biology	4 ___
BIOL 3460 Invertebrate Zoology	4 ___
BIOL 3480 General Entomology	4 ___
BIOL 4450 Bryophytes, Ferns, and Seed Plants	4 ___
HSCI 3320/21 General Microbiology	4 ___ W(F97)
BIOL 4337 Plant Systemics	4 ___
BIOL 4487 Paleobotany	4 ___
BIOL 4477 Ornithology	4 ___
BIOL 4047 Ecological Field Trip	3 ___
BIOL 4247 Appalachian Flora	3 ___
BIOL 4257 Appalachian Fauna	3 ___
BIOL 4857 Aquatic Biology	3 ___
BIOL 4887 Arachnology	4 ___
Total Hours in Biology	<u>22-25</u>

Courses on Teaching Content Area page pertain to Teaching Licensure requirements. Additional major and degree requirements may apply. For major and degree requirements it is necessary to meet with your major advisor.

TEACHER EDUCATION ENTRANCE AND EXIT REQUIREMENTS

ENTRANCE

- Declaration of Intent Form
- Praxis Core, ACT, or SAT minimal test scores
- 2.75 GPA in 32 Gen Ed hours & overall (see criteria)
- Completed EDFN 2100 & 2300 with "B-" or above
- Background Check completed 4 wks prior to submitting Teacher Education Application (This must be initiated in Warf Pickel, 321 or it will NOT be accepted.)
- CSCI 1100 or proficiency exam
- GPA of 3.0 in all major courses with no more than one course with grade below "C" (2.0), including any course that has been repeated.
- Admission Board Interview

ENTRANCE TO R II

- Praxis II test Scores
 - Principles of Learning & Teaching
 - Specialty Area (s)

EXIT

- Recommendation for Licensure