Student Name:	_ Dept. A	Advisor		
ID Number:	Checke	Checked by:		
Catalog Year: 2008-2009				
EAST TENNESSEE STATE UNIVERSITY COLLEGE OF EDUCATION APPROVED PROGRAM OF STUDY IN TEACHER PREPARATION FOR				
BIOLOGY	7-12	415		
Tennessee Licensing Endorsement	Grade Leve	el Code#		
GENERAL EDUCATION REQUIREMENTS TOTAL GENERAL EDUCATION HOURS 41-42 I. COMMUNICATION (9 hours) ENGL 1010 Critical Reading & Exp. Writ. (3 ENGL 1020 Critical Thinking & Argument. (One of the following: SPCH 1300 General Speech (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 (4) III. SCIENCE (8 hours) Open to Non-Science Majors only: BIOL 1010-1011 Biology for Non-majors I (BIOL 1020-1021 Biology for Non-majors II (CHEM 1030 Intro. to Chem. Survey (4) PHYS 1030 Intro. to Physics Survey (4) CHEM 1000 Chemistry & Well-Being (4) ASTR 1010 Astronomy I (4) ASTR 1020 Astronomy II (4) BIOL 1110-1111 Biol for Sci Majors II (4) BIOL 1110-1112 Biol for Sci Majors II (4) BIOL 1120-1121 Biol for Sci Majors II (4) BIOL 1110-1111 Gen. Chemistry I (4) CHEM 1100-1112 Gen. Chemistry I (4) GEOL 1040 Physical Geology (4) GEOL 1040 Physical Geology (4) GEOL 1050 Historical Geology (4) GEOG 1110 Earth Sci: Weath. & Clim. (4) GEOG 1110 Earth Sci: Land. & Proc. (4) HSCI 2020-2021 Anatomy & Phys. I (4) PHYS 2110 Tech. Physics I - Calc. Based (5 PHYS 2120 Tech. Physics I - Calc. Based (5	:) (3) (4) (4) (4)	IV. HISTORY (6 hours) HIST 2010 U.S. History to 1877 (3) HIST 2020 U.S. History since 1877 (3) 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 I (3) ENGL 2120 British Literature I (3) (WI) ENGL 2220 British Literature I (3) (WI) ENGL 2430 European Literature (3) (WI) ENGL 2330 World Literature (3) Fine Arts – complete one of the following: ARTH 2010 Art History Survey I (3) ARTH 2020 Art History Survey I (3) MUSC 1030 Introduction to Music (3) MUSC 1030 Introduction to Music (3) HUMT 2310 Arts and Ideas I (3) HUMT 2310 Arts and Ideas I (3) HUMT 2320 Arts and Ideas I (3) HUMT 2320 Arts and Ideas I (3) HUMT 2320 Arts and Ideas I (3) HIST 1110 World History & Civ. to 1500_(3) HIST 1120 World History & Civ. to 1500_(3) HIST 1120 World History & Civ. Since 1500 (3) PHIL 2020 Introduction to Philosophy (3) PHIL 2020 Introduction to Philosophy (3) PHIL 2020 Introduction to Ethics (3) (WI) ENGL 3280 Mythology & Civ. Since 1500 (3) PHIL 2020 Introduction to Ethics (3) (WI) PHIL 2020 Introduction to Ethics (3) (WI) PH		

VI. SOCIAL AND BEHAVIORAL SCIENCES (6)

- ECON 1050 Economics & Society (3) OR
- ECON 2210 Principles of Economics Part I (3)
- _____GEOG 1012 Introduction to Cultural Geography (3)
- _____HDAL 2310 Developmental Lifespan Psychology (3)
- ____PSCI 1110 Political Life (3) (WI) (OI)
- _____PSCI 1120 Introduction to American Government (3)
- _____PSYC 1310 Introduction to Psychology (3)
- _____SOCI 1020 Introduction to Sociology (3)
- _____ANTH 1240 Introduction to Cultural 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)

MATHEMATICS AND NATURAL SCIENCES

- NOTE: Completion of IBMS 1100 and 1200 satisfies both the Mathematics requirement and the Natural Sciences requirement. Students must complete the entire two-course sequence in order to fulfill the Mathematics and Natural Sciences blocks. Students who complete only one of the courses (not recommended) will be considered to have met four credit hours of the Natural Sciences requirement.

Revised 05/08

ADDITIONAL GRADUATION REQUIREMENT

USING INFORMATION TECHNOLOGY (3 hours)

- CSCI 1100 Using Information Technology (circle 2 or 3 hrs.) OR
- Pass UIT Proficiency Exam

<u>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.</u> 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.

WRITING: COURSES (WI)

ORAL: COURSE(S) (OI)

TECHNOLOGY: ___ COURSE(S) (TI)

TEACHER EDUCATION MINOR: <u>✓ requires admission to Teacher Education to enroll</u>

- _____ 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)
- _____ HDAL 3310 Educational Psychology (3)
- _____ SPED 2300 Exceptional Learners in Schools and Communities (3)
- ____ MEDA 3570 Educational Technology (2) (TI) ✓
- ____ CUAI 4417 Secondary Curriculum and Methodology (3) ✓
- ____ CUAI 4427 Secondary Curriculum and Methodology Field Experience (1) ✓
- _____ SCED 4417 Teaching Science in Secondary Schools (3)
- ____ READ 4437 Reading in the Middle/Secondary School (3) (7-12) ✓ (WI)

TOTAL HOURS FOR THE MINOR: 24

PROFESSIONAL SEMESTER: _____ CUAI 4580 Student Teaching (12) ✓ (OI)

ALL TEACHER LICENSURE STUDENTS MUST RECEIVE ADVISEMENT FROM THE COLLEGE OF EDUCATION PROFESSIONAL ADVISOR IN ROOM 321 WARF-PICKEL.

SECONDARY BIOLOGY EDUCATION SCIENCE CORE	Ξ
Biological Science	8
BIOL 1110/1111 Biology for Science Majors I Lab	

BIOL 1110/1111 Biology for Science Majors I, Lab BIOL 1120/1121 Biology for Science Majors II, Lab	o
Chemistry CHEM 1110/11 Gen. Chemistry I/Lab CHEM 1120/21 Gen. Chemistry II/Lab	8
Geology/Geography GEOL 1040 Physical Geology GEOL 1050 Historical Geology OR GEOG 1110 Earth Science: Weather and Climate GEOG 1120 Earth Science: Landform & Proc.	8
Physics PHYS 2010/2011 Gen. Physics I/Lab W(S97) PHYS 2020/2021 Gen. Physics II/Lab W(S97)	8
Math MATH 1530 : Probability & Statistics MATH 1910: Calculus	7
Basic core in science	39
BIOLOGY CONCENTRATION	
BIOL 1130/1131 Biology for Science Majors III/Lab BIOL 3100 General Genetics	4T(F99) 3
Molecular Level (one course)	
BIOL 3150/3151 Cell Biology (3,2) BIOL 4147/4157 Biochem of Macromolecules/Lab BIOL 4167/4177 Biochem of Metabolism and Lab BIOL 4597 Recombinant DNA Lab AND BIOL 4647 Molecular Biology	5O(F97) 5W(F99) 5W(S00) 6T(S98)
Organismal Level (one course) BIOL 3220 Comparative Anatomy BIOL 3230 Vertebrate Embryology BIOL 3260 Animal Physiology BIOL 4267 Plant Development BIOL 4277 Neurobiology BIOL 4357 Ethology BIOL 4767 Plant Physiology	4 4 4 4 3O(F97) 4O(S99)
Population Level (one course) BIOL 3350 Ecology BIOL 4337 Plant Systemics BIOL 4360 Evolution BIOL 4737 Conservation Biology BIOL 4747 Population Genetics BIOL 4867 Marine Biology	4 4 3W(F95) 4O(F97) 4T(F97) 4
Biodiversity Level (two courses) BIOL 3410 Vertebrate Zoology BIOL 3420 Plant Biology BIOL 3460 Invertebrate Zoology BIOL 3480 General Entomology BIOL 4450 Bryophytes, Ferns, and Seed Plants HSCI 3320/21 General Microbiology OR HSCI2230/2231 Microbiology Total Hours in Biology	4 4 4 4 4W(F97) 4W(F97) 22-25

Biology revised 05/06

TEACHER EDUCATION ENTRANCE AND EXIT REQUIREMENTS

- ENTRANCE **Declaration of Intent form** PPST, ACT, or SAT minimal test scores 2.5 GPA in 30 earned hours (see criteria) Completed EDFN 2100 and 2300 with "C" 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.)
- - Admission Board Interview

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