

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: 2012 - 2013

**EAST TENNESSEE STATE UNIVERSITY  
COLLEGE OF EDUCATION  
APPROVED PROGRAM OF STUDY IN TEACHER PREPARATION FOR**

**EARTH SCIENCE**

**7-12**

**418**

Tennessee Licensing Endorsement

Grade Level

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. (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)
- \_\_\_\_\_ 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 Exploring Geology (4)
- \_\_\_\_\_ GEOL 1050 Historical Geology (4)
- \_\_\_\_\_ GEOG 1110 Earth Sci: Weath. & Clim. (4)
- \_\_\_\_\_ GEOG 1120 Earth Sci: Land. & Proc. (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 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 II (3)
- \_\_\_\_\_ MUSC 1030 Introduction to Music (3)
- \_\_\_\_\_ MUSC 1035 History of Jazz (3)
- \_\_\_\_\_ DANC 3500 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. to Study of Religion (3)

**VI. SOCIAL AND BEHAVIORAL SCIENCES (6)**

- ECON 1050 Economics & Society (3) **OR**
- ECON 2210 Principles of Macroeconomics (3)
- GEOG 1012 Introduction to Cultural Geography (3)
- HDAL 2310 Developmental Psychology (3)
- HDAL 2340 Understanding Cultural Diversity (WI) (OI) (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)
- ECON 2220 Principles of Microeconomics

**MATHEMATICS AND NATURAL SCIENCES**

- IBMS 1100 Integrative Biology and Statistics .....6 credits
- IBMS 1200 Integrative Biology and Calculus .....6 credits

**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 03/11

**ADDITIONAL GRADUATION REQUIREMENT  
USING INFORMATION TECHNOLOGY (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)**

**TEACHER 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)
- HDAL 3310 Educational Psychology (3)
- SPED 2300 Exceptional Learners in Schools and Communities (3)
- MEDA 3570 Educational Technology (2) (TI) ✓
- CUAJ 4417 Secondary Curriculum and Methodology (3) ✓ (take semester prior to student teaching)
- CUAJ 4427 Secondary Curriculum and Methodology Field Experience (1) ✓ (take sem. prior to student teaching)
- 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:**

- CUAJ 4580 Student Teaching (12) ✓ (OI)

Revised 05/06

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

**SECONDARY EARTH SCIENCE 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 I/Lab  
CHEM 1120/21 Gen. Chemistry II/Lab

Geology/Geography 8\_\_\_\_  
GEOL 1040-1041 Exploring Geology  
GEOL 1050 Historical Geology OR  
GEOG 1110 Earth Science: Weather and Climate  
GEOG 1120 Earth Science: Landform & Proc.

Physics 8\_\_\_\_  
PHYS 2010/2011 Gen. Physics I/Lab W(S97)  
PHYS 2020/2021 Gen. Physics II/Lab W(S97)

Math 7\_\_\_\_  
MATH 1530 : Probability & Statistics  
MATH 1910: Calculus I

Basic core in science 39\_\_\_\_

**EARTH SCIENCE CONCENTRATION**

ASTR 1010 Astronomy I OR 4\_\_\_\_  
ASTR 1020 Astronomy II AND 4\_\_\_\_  
GEOG 3060 Geomorphology 4\_\_\_\_  
GEOG 3090 Meteorology and Climatology 4\_\_\_\_  
GEOL 3001 Mineralogy 4\_\_\_\_  
GEOL 3580 Structural & Engineering Geology 4\_\_\_\_

Select one of the following:

GEOL 3391 Invertebrate Paleontology  
GEOL 4120 Petrography  
GEOG 3040 Conservation of National Resources  
GEOG 4267 Hydrology  
GEOL 4540 Sedimentation/Stratigraphy  
GEOL 3481 Environmental Geology 3-4\_\_\_\_

Earth Science

revised 05/09

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**TEACHER EDUCATION ENTRANCE AND EXIT REQUIREMENTS**

**ENTRANCE**

- \_\_\_\_ Declaration of Intent form
- \_\_\_\_ PPST, ACT, or SAT minimal test scores
- \_\_\_\_ 2.5 GPA in 32 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

**EXIT**

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

Revised 05/08