

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

#### MATHEMATICS

7-12

413

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)
- CUA1 4571 Pre-Residency: Classroom & Instructional Mgmt. in Middle & Secondary Schools (1) ✓ Summer
- CUA1 4416 Residency I: Middle and Secondary School Curriculum, Methods, and Assessment (2) ✓ Fall
- CUA1 4426 Residency I: Middle and Secondary School Curriculum and Methods Field Experience (1) ✓ Fall
- MATH 4417 Residency I: Teaching of Secondary Mathematics (3) ✓ Fall

TOTAL HOURS FOR THE MINOR: 24

**PROFESSIONAL SEMESTER:**

- CUA1 4580 Residency II: Student Teaching (12) (OI) ✓ Spring

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

**TEACHING CONTENT AREA: MATHEMATICS**

- MATH 1910 Calculus I (4) (also part of the general education core)
- MATH 1920 Calculus II (4)
- MATH 2010 Linear Algebra (3)
- MATH 2050 Probability and Statistics – Calculus Based (3)
- MATH 2090 Mathematical Computing (2) (WI)
- MATH 2110 Calculus III (4)
- MATH 2120 Differential Equations (3)
- MATH 3000 Mathematical Reasoning (3)
- MATH 3040 History of Mathematics (3) (WI) (OI)
- MATH 3150 Mathematical Modeling (3)
- MATH 3340 Applied Combinatorics & Problem Solving (3)
- MATH 4010 Undergraduate Research (3) (WI) (OI)
- MATH 4127 Introduction to Modern Algebra (3)
- MATH 4217 Analysis I (3)
- MATH 4157 Modern Geometry (3)
- MATH 4257 Numerical Analysis (3) (TI)
- OR
- MATH 4267 Numerical Linear Algebra (3) (TI)
  
- PHYS 2110 Technical Physics I, Calculus-Based (5) AND
- PHYS 2120 Technical Physics II, Calculus-Based (5)
- OR
- BIOL 1110/1111 Biology for Science Majors I Lecture & Lab (4) AND
- BIOL 1120/1121 Biology for Science Majors II Lecture & Lab (4)

**TOTAL TEACHING CONTENT AREA HOURS: 61-63**

- **Courses on this 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.**

Mathematics updated 05/14

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**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