

PHYSICS/MATHEMATICS CERTIFICATION PLAN

MULTIDISCIPLINARY SCIENCE REQUIREMENTS--8 hours

1. _____ BIOL 1401--Biology of Plants

OR _____ BIOL 1402--Biology of Animals

123-131 TOTAL DEGREE HOURS

2. _____ CHEM 1107--Principles of Chemistry I (Laboratory)

Corequisite: CHEM 1307

3. _____ CHEM 1307--Principles of Chemistry I

Prerequisite: CHEM 1301 or a score of 50 or better on the Chemistry Placement Exam

TEACHER EDUCATION PROGRAM (TEP)--27 hours--Admission to the Teacher Education Program is required to take these courses. A minimum cumulative (Texas Tech and transfer) GPA of 2.5 is required for admission. Before applying to the Teacher Education Program, please note that you should have earned at least 72 hours on your certification and degree plans before you start taking TEP classes. Apply to the TEP at www.educ.ttu.edu/certification/online_apps.html. Application deadlines are February 1 to begin education courses in the fall term and September 20 to begin in the spring term. These courses must be taken as listed. All coursework must be complete before student teaching. No grade of D, F, or I will be accepted. Since this plan and the listed exams are subject to change, this plan should be completed within a period of three calendar years.

Block I (Spring or Fall Semester)

1. _____ EDSE 4310--Schooling and the Adolescent

2. _____ EDSE 4322--Diversity and the Classroom Learning Environment

Block II (Spring or Fall Semester)

1. _____ EDLL 4382--Reading and Writing in the Secondary Classroom

2. _____ EDSE 4311--Curriculum Planning, Development, and Evaluation

3. _____ EDSE 4376--Methods in Science Teaching

Block III--Student Teaching (Spring or Fall Semester)--An overall and teaching field GPA of 2.5 is required to student teach. Student teaching includes attending a Capstone course and completing all Capstone requirements.

1. _____ EDSE 4000 (9 hours)--Student Teaching in the Secondary School

2. _____ EDSE 4330 (3 hours)--Capstone for Secondary Students

FOR FURTHER INFORMATION

To discuss certification requirements or substitutions, please contact the program advisor, Dr. Jennifer Wilhelm, at (806) 742-1997, ext. 229 or jennifer.wilhelm@ttu.edu.

PHYSICS/MATHEMATICS CERTIFICATION PLAN

CONTENT AREA--55 hours--2.5 required GPA. These courses must be taken as listed. All coursework must be complete before student teaching. No grade of D, F or I will be accepted.

Physics Content Area--27 hours

1. _____ PHYS 1408--Principles of Physics I
Prerequisite: MATH 1351 (can be taken concurrently) or MATH 1352, 2322, 2323, 2350 or 2360
2. _____ PHYS 2401--Principles of Physics II
Prerequisite: PHYS 1408 and MATH 1352 (can be taken concurrently) or MATH 3350, 3351, 3354 or 4354
3. _____ PHYS 2402--Principles of Physics III
Prerequisite: PHYS 2401
4. _____ PHYS 3304--Intermediate Physics Laboratory
Prerequisite: PHYS 2402
5. _____ PHYS 3401--Optics
Prerequisites: PHYS 1408 and 2401
6. _____ PHYS _____ Physics Topic (ASTR 1400)
7. _____ PHYS _____ Physics Topic (ASTR 1401)

Math Content Area--28 hours

1. _____ MATH 1351--Calculus I
Prerequisite: MATH 1350 or 1550 or 1321 and Code 5 on MPE or Code 7 on MPE or a score of at least 660 on the SATM or a score of at least 29 on the ACTM
2. _____ MATH 1352--Calculus II
Prerequisite: MATH 1351 or dept. consent
3. _____ MATH 2350--Calculus III
Prerequisite: MATH 1352 or dept. consent
4. _____ MATH 2360--Linear Algebra
Prerequisite: MATH 2350 or concurrent with 2350 or dept. consent
5. _____ MATH 3310--Introduction to Mathematical Reasoning and Proof
Prerequisite: MATH 2350 or concurrent with 2350 or consent of department
6. _____ MATH 3342--Mathematical Statistics for Engineers and Scientists
Prerequisite: MATH 2350 or dept. consent
- OR** _____ MATH 4342--Mathematical Statistics
Prerequisite: MATH 2350
7. _____ MATH 3350--Higher Mathematics for Engineers and Scientists I
Prerequisite: MATH 2350 or dept. consent
- OR** _____ MATH 3354--Differential Equations I
Prerequisites: MATH 2360 or dept. consent
8. _____ MATH 3430--Computational Techniques for Science and Mathematics
Prerequisite: MATH 2360 or dept. consent
9. _____ MATH 4331--Advanced Geometry
Prerequisite: MATH 2350 and 3310 or dept. consent

- ⇒ The State of Texas does criminal background checks on all applicants for Teacher Certification.
- ⇒ The undergraduate requirements and/or the certification requirements may change according to state regulations.

By signing below, I signify that I understand the contents of this document.

Student Signature: _____

Date: _____

Program Signature: _____

Date: _____

Certification Advisor Signature: _____

Date: _____