

**EDSE 4128. Student Teaching Seminar in Science, Math and Computer Science.** 1 hour. Discussions include student teaching experiences. Contemporary critical issues in education. Preparation for the state certification exam. Prerequisite(s): TNTX 1100 and TNTX 1200; EDSE 3500, EDSE 4000 and EDSE 4500; concurrent enrollment in EDSE 4608 and EDSE 4618; and senior standing.

**EDSE 4500. Project-Based Instruction in Math, Science and Computer Science.** 3 hours. Foundations of project-based, case-based and problem-based learning environments. Principles of project-based curriculum development in mathematics and science education. Classroom management and organization of project-based learning classrooms. This capstone course should be taken just prior to student teaching. Prerequisite(s): admission to the Teach North Texas program, a university grade point average of at least 2.50, and TNTX 4000.

**EDSE 4608. Student Teaching I in Mathematics and Science.** 3 hours. (0;0;6) Teaching under supervision. Required for students seeking secondary certification. See the Teach North Texas program for details. Prerequisite(s): TNTX 1100 and TNTX 1200; EDSE 3500, EDSE 4000 and EDSE 4500; concurrent enrollment in EDSE 4128; and senior standing.

**EDSE 4618. Student Teaching II in Mathematics and Science.** 3 hours. (0;0;6) Teaching under supervision. Required for students seeking secondary certification. See the Teach North Texas program for details. Prerequisite(s): TNTX 1100 and TNTX 1200; EDSE 3500, EDSE 4000 and EDSE 4500; concurrent enrollment in EDSE 4128; and senior standing.

**EDSE 4800-EDSE 4810. Studies in Education.** 1–3 hours each. Organized classes for program needs and student interest. Prerequisite(s): consent of department. Limited-offering basis. May be repeated for credit.

**EDSE 4840. Instructional Strategies and Classroom Management.** 3 hours. (0;0;3) Taken during the semester immediately preceding student teaching, this course provides knowledge and skills required for organizing and directing various instructional strategies in the secondary classroom. Content includes teaching strategies, approaches to classroom management and discipline, student motivation, student and teacher assessment and evaluation, and the use of media and technology in the classroom. Instruction, assignments, directed field experience and other class activities may take place on site in a school setting. Must complete 55 hours of field experience in assigned middle and high schools. Prerequisite(s): junior standing, admission to teacher education, and completion of or concurrent enrollment in all education course work excluding student teaching.

**EDSE 4900-EDSE 4910. Special Problems.** 1–3 hours each.

**EDSE 4951. Honors College Capstone Thesis.** 3 hours. Major research project prepared by the student under the supervision of a faculty member and presented in standard thesis format. An oral defense is required of each student for successful completion of the thesis. Prerequisite(s): completion of at least 6 hours in honors courses; completion of at least 12 hours in the major department in which the thesis is prepared; approval of the department chair and the dean of the school or college in which the thesis is prepared; approval of the dean of the Honors College. May be substituted for HNRS 4000.

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## Teach North Texas

### *Teach North Texas, TNTX*

**TNTX 1100. Secondary Teacher Education Preparation I: Inquiry Approaches to Teaching.** 1 hour. (1;0;1)

Introduction to mathematics, computer sciences and science teaching as a career. Discussions include standards-based lesson design and various teaching and behavior management strategies. Fieldwork consists of planning and teaching four inquiry-based lessons to students in grades 3–5 in local elementary schools. Prerequisite(s): admission to the Teach North Texas Program; see the Teach North Texas advisor for details.

**TNTX 1200. Secondary Teacher Education Preparation II: Inquiry-Based Lesson Design.** 1 hour. (1;0;1) Topics may include routes to teacher certification in mathematics, computer sciences and science teaching; various teaching methods designed to meet instructional goals; learner outcomes. Students develop and teach three inquiry-based lessons in the field in a middle school and participate in peer coaching. Prerequisite(s): TNTX 1100 or consent of Teach North Texas advisor.

**TNTX 1300. Secondary Teacher Education Preparation I and II: Inquiry-Based Lessons.** 2 hours. (2;1) One-semester introduction (equivalent to TNTX 1100 and TNTX 1200) to mathematics, computer science and science teaching as a career. Discussions include standards-based lesson design and various teaching and behavior management strategies. Topics may include various teaching methods designed to meet instructional goals and learner outcomes. Students develop and teach three inquiry-based lessons in their field in a middle school and participate in peer coaching. Students may not enroll in TNTX 1300 if they have completed TNTX 1100 and TNTX 1200. Prerequisite(s): junior status and consent of the Teach North Texas advisor.

**TNTX 4900–TNTX 4910. Special Problems.** 1–3 hours. Prerequisite(s): TNTX 1100 and TNTX 1200 (or TNTX 1300), and consent of department. May be repeated for credit as topics vary.

**TNTX 4930. Selected Topics in Mathematics and Science Teaching.** 3 hours. Topics of current interest, which vary from year to year. Prerequisite(s): TNTX 1100 and TNTX 1200 (or TNTX 1300), and consent of department.

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## Technical Communication

see Linguistics and Technical Communication

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## Theatre

see Dance and Theatre

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## Theory, Music

see Music