UTEACHSA (UTE)

UTEACHSA (UTE) Courses

UTE 1111. Introduction to STEM Teaching Step 1. (1-0) 1 Credit Hour. Introduces STEM teaching as a career. Discussions include standards and inquiry-based lesson design and various teaching and behavior management strategies. This course requires fieldwork that allows the student to observe and teach in an elementary classroom. Generally offered: Fall, Spring. Course fee: DL01 $25.

UTE 1122. Introduction to STEM Teaching Step 2. (2-0) 2 Credit Hours. Prerequisite: UTE 1111 with a grade of "C-" or better. Further exploration of STEM teaching as a career while building on the knowledge and skills developed in UTE 1111. Emphasis is placed on various teaching methods that are designed to meet instructional goals and learner outcomes. This course requires fieldwork that provides experience observing and teaching in a middle school STEM classroom. Generally offered: Fall, Spring. Course fee: DL01 $50.

UTE 2113. Functions and Modeling. (3-0) 3 Credit Hours. Prerequisites: MAT 1093 or consent of instructor, and admission to the UTEACHSA teacher preparation program. In-depth study of concepts needed to teach secondary school mathematics at various levels. Emphasizes the development of the concept of function, exploring function patterns in data sets, and the connections between the main topics of mathematics associated with a secondary school curriculum. Use of appropriate technology is explored. May not be applied toward the Mathematics Concentration of the B.S. degree in Mathematics. (Same as MAT 2113. Credit cannot be earned for both UTE 2113 and MAT 2113).

UTE 3203. Knowing and Learning in Mathematics and Science. (3-0) 3 Credit Hours. Prerequisite: UTE 1111 with a grade of "C-" or better, may be taken concurrently with UTE 1111 or UTE 1122. Critical examination of issues related to what it means to know and learn in STEM classrooms. Emphasis on psychological foundations of teaching, problem solving in STEM utilizing technology, principles of expert and novice understandings of subject matter, implications of high-stakes testing, and foundations of formative and summative assessment. Differential Tuition: $150. Course fee: DL01 $75.

UTE 3213. Classroom Interactions. (3-0) 3 Credit Hours. Prerequisites: UTE 1122 and UTE 3023 with grades of "C-" or better. Application of learning theories in STEM instructional settings. Design and implementation of instructional activities informed by students’ own understanding of what it means to know and learn mathematics and science, and outcome evaluation on the basis of student artifacts. Opportunities to develop awareness and understanding of equity issues affecting students by examining gender, class, race, culture, and other diverse attributes of students and how they impact learning. Includes field experience in a middle or high school classroom. Differential Tuition: $150. Course fee: DL01 $75.

UTE 3203. Knowing and Learning in Mathematics and Science. (3-0) 3 Credit Hours.

UTE 4646. Clinical Teaching. (0-0) 6 Credit Hours. Prerequisite: Admission to Teacher Certification Program and the clinical teaching semester, and completion of UTE 1111, UTE 1122, UTE 3203, UTE 3213, UTE 4203, and LTED 3773 with a grade of "C-" or better; can lack no more than 6 hours in content subject matter; individuals must apply to the director of clinical teaching one semester in advance. Full semester of full-day clinical teaching in grades 7–12. Student teacher will be responsible for planning, implementing, and evaluating instruction in collaboration with the cooperating teacher and in conjunction with the UTSA supervisor. Individuals pursuing a Basic Secondary Certificate, Concentration A, will student teach in the single teaching field for which certification is sought. Individuals with two teaching fields will student teach in their major teaching field. Seminars explore issues in teaching practice. (Same as CI 4646. Credit cannot be earned for both UTE 4646 and CI 4646). Differential Tuition: $300.