

# *teach*HOUSTON

## Courses for Spring 2008

### **CUIN 1101: Teaching Science and Math—STEP 1**

The aim of the STEP courses is to attract students to careers in math & science teaching. University of Houston Master Teachers introduce students to examples of high-quality inquiry-based lessons and model the pedagogical concepts to which they are being introduced. Students are assigned an **elementary school** Mentor Teacher. They prepare and teach 3 lessons in their Mentor Teacher's classroom.

Tuesday, 10:00 - 11:20 a.m.

### **CUIN 1102: Teaching Science and Math—STEP 2**

(Prerequisite: CUIN 1101: Teaching Science and Math—STEP 1)

The aim of the STEP courses is to attract students to careers in math & science teaching. University of Houston Master Teachers introduce students to examples of high-quality inquiry-based lessons and model the pedagogical concepts to which they are being introduced. Students are assigned a **middle school** Mentor Teacher. They prepare and teach 3 lessons in their Mentor Teachers' classrooms.

Thursday, 10:00 - 11:20 a.m.

### **CUIN 4397: Knowing and Learning Science and Math**

(Prerequisite or co-requisite: CUIN 1101: Teaching Science and Math—STEP 1)

This course expands the prospective teacher's understanding of current theories of learning and conceptual development as it applies to the learning and teaching of science and math. Students examine their own assumptions about learning. They also critically examine the needs of a diverse student population in the classroom.

TTH, 8:30 – 9:50 a.m.

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**CUIN 4397: Perspectives of Math and Science**

(Prerequisite: CUIN 1101: Teaching Science and Math—STEP 1)

(Prerequisite or co-requisite: CUIN 4397: Knowing & Learning Science and Math)

This course introduces prospective mathematics and science teachers to the historical, social, and philosophical implications of mathematics and science advances which occurred during three significant episodes in history.

TTH, 2:30 – 3:50 p.m.

**CUIN 4397: Classroom Interactions in Science and Math**

(Prerequisite: CUIN 1101: Teaching Science and Math—STEP 1)

(Prerequisite or co-requisite: CUIN 4397: Knowing & Learning Science and Math)

This field-based course focuses on multiple models of teaching, what each model requires of teachers, and the corresponding impact on interactions that occur in mathematics and science classrooms. It attends to how content and pedagogy combine to address equity and diversity issues in classroom teaching to insure that all students have an opportunity to learn. Students are assigned a **high school** Mentor Teacher. They prepare and teach lessons in their Mentor Teachers' classrooms.

MWF, 10:00 – 10:50 a.m.