

## UTeach Columbus Advising Notes

UTeach Columbus is an innovative program involving mathematics, science and education faculty at Columbus State University and teaching experts in local schools. Together these faculty and teaching practitioners will prepare students for a career in mathematics or science. This program allows students to acquire a deep understanding of their field of study; explore mathematics or science teaching as a career; and develop the knowledge, skills, and dispositions needed for teaching. Upon completion of the program, students will earn a degree in biology, chemistry, earth and space science, or mathematics and be qualified to teach in a middle school or high school after passing the appropriate state certification examinations. To enroll in the UTeach Columbus program, students must declare a major in one of the following:

- BA Biology – Secondary Education Track
- BA Chemistry – Secondary Education Track
- BS Chemistry – Applied Track
- BS Earth and Space Sciences – Secondary Education Track
- BS Mathematics – Secondary Education Track
- BS Mathematics
- BA Mathematics

### UTeach Columbus Courses

Course	Course description	Field Experiences	First Semester Offered
UTCH 1201 Step 1: Inquiry Approaches to Teaching (1-1-1)	An introduction to the theory and practice that is necessary to design and deliver excellent instruction in grades 3-12. Students will have an opportunity to explore teaching in science or mathematics as a career. Course includes field experiences in elementary classrooms.	Elementary School 2 classroom observations; 3 teaching events  <i>Because of the significant amount of time required to plan teaching lessons, this class is more like a lab or 2 hour class. Students must be available for a two hour block during elementary school hours at least 1 day per week. Criminal background check will be required prior to school visits.</i>	Spring 2012
UTCH 1202 Step 2: Inquiry-Based Lesson Design (1-1-1)	<i>Prerequisite:</i> UTCH 1201 with a C or better. This course builds on the knowledge and skills developed in UTCH 1201 with an emphasis on the middle school environment and curricula. Students continue to explore teaching in science or mathematics as a career. Course includes field experience in a middle school classroom.	Middle School 1 classroom observation; 3 teaching events  <i>Because of the significant amount of time required to plan teaching lessons, this class is more like a lab or 2 hour class. Students must be available for a two hour block during middle school hours at least 1 day per week.</i>	Fall 2012
UTCH 2105 Knowing and Learning (3-0-3)	<i>Prerequisites:</i> UTCH 1202 with a grade of C or better or departmental approval. Critical examination of issues related to learning and knowing science and mathematics. Development of a		Fall 2012

Course	Course description	Field Experiences	First Semester Offered
	powerful tool kit of approaches to knowing and learning in mathematics and science.		
UTCH 3115 Functions and Modeling (3-0-3) (For math majors only)	<i>Prerequisites:</i> MATH 2115 with a C or better <u>and</u> MATH 1131 with a C or better. Explorations designed to strengthen and expand students' knowledge of topics found in secondary mathematics. Topics of investigation may include function properties and patterns, complex numbers, parametric equations, polar equations, vectors, and exponential growth and decay. Emphasis on mathematics content knowledge and content connections, as well as applications of the mathematics topics covered.		Spring 2013
UTCH 3205 Classroom Interactions (3-1-3)	<i>Prerequisites:</i> UTCH 2105 with a grade of C or better and Admission to Teacher Education. Application of learning theories in instructional settings. Teacher candidates will design and implement instructional activities informed by their own understanding of what it means to know and learn mathematics and science, and then evaluate the outcomes of those activities on the basis of student artifacts. Candidates will develop awareness and understanding of equity issues and their effects on learning. Includes field experience in middle or high school classrooms.	High School/Middle School 3 classroom observations; 3 teaching events  <b>Students must be available for a two hour block during middle/high school hours at least 1 day per week.</b>	Spring 2013
ITDS 2125 Historical Perspectives on the Philosophy of Science & Math (3-0-3)	Overview of the history and philosophical underpinnings of science and mathematics. Connections of broader history and context to science and mathematics learning.		Summer 2013
UTCH 2215 Research Methods (3-0-3)	<i>Prerequisites:</i> UTCH 1202 with a grade of C or better. Students design and carry out four independent inquiries, which they write up and present in the manner that is common in the scientific community. Inquiries incorporate mathematics and the various science disciplines.		Fall 2013
UTCH 4205 Project-Based Instruction (3-1-3)	<i>Prerequisites:</i> UTCH 2105 with a grade of C or better and Admission to Teacher Education. Exploration of project-based instruction and development of an approach to designing, implementing and evaluating problem- and project-based curricula and processes in middle and secondary math and science	High School/Middle School 2 classroom observations; 3 teaching events  <b>Students must be available for a two hour block during middle/high school hours at least 1 day per week.</b>	Fall 2013

Course	Course description	Field Experiences	First Semester Offered
	classrooms. Includes field experience in middle or high school classrooms and learning centers such as Oxbow Meadows or Coca Cola Space Science Center.		
UTCH 4485 Student Teaching (0-40-9)	<i>Prerequisite:</i> Admission to Teacher Education and Student Teaching. <i>Corequisites:</i> UTCH 4795 and SPED 4115. This course is part of the UTeach Columbus program. Observation, participation, and instruction in a middle or high school classroom in the student's major field. Cooperative supervision by selected classroom teachers and college faculty. (S/U grading) (Course fee required.)	High School/Middle School One semester, full-time student teaching experience	Spring 2014
UTCH 4795 Student Teaching Seminar (1-0-1)	<i>Prerequisite:</i> Admission to Teacher Education and Student Teaching. <i>Corequisite:</i> UTCH 4485. Discussion of common problems encountered in student teaching conducted in a seminar setting. (S/U grading)		Spring 2014
SPED 4115 Teaching Math & Science to Exceptional Learners (2-0-2)	<i>Prerequisites:</i> Admission to Teacher Education and Student Teaching. <i>Corequisites:</i> UTCH 4485. Information and techniques for designing appropriate instructional strategies for learners with disabilities, gifts, and talents.		Spring 2014

**A limited number of \$1000-1500 scholarships and internships will be available for UTeach Columbus students beginning Fall 2012. More information as well as applications will be available on the UTeach website at <http://uteach.columbusstate.edu/scholarships.php>.**

### Sample UTeach Columbus Course Sequence

#### Freshman pathway

Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8*
UTCH 1201 Step 1: Inquiry Approaches to Teaching	UTCH 1202 Step 2: Inquiry-Based Lesson Design	UTCH 2105 Knowing and Learning	UTCH 3115 Functions and Modeling (for math majors only)  ITDS 2125 Historical Perspectives on Science & Math	UTCH 3205 Classroom Interactions	UTCH 2115 Research Methods	UTCH 4205 Project-Based Instruction	UTCH 4485 Student Teaching  UTCH 4795 Student Teaching Seminar  SPED 4115 Teaching Math & Science to Exceptional Learners
<b>Sophomore pathway</b>		UTCH 1201 Step 1	UTCH 1202 Step 2  UTCH 3115 Functions and Modeling (for math majors only)	UTCH 2105 Knowing and Learning  ITDS 2125 Historical Perspectives on Science & Math	UTCH 3205 Classroom Interactions  UTCH 2115 Research Methods	UTCH 4205 Project-Based Instruction	UTCH 4485 Student Teaching  UTCH 4795 Student Teaching Seminar  SPED 4115 Teaching Math & Science to Exceptional Learners
		<b>Junior Pathway (Fall 2013 and beyond)</b>		UTCH 1201 Step 1  ITDS 2125 Historical Perspectives on Science & Math	UTCH 1202 Step 2  UTCH 2105 Knowing and Learning  UTCH 2115 Research Methods	UTCH 3205 Classroom Interactions  UTCH 4205 Project-Based Instruction  UTCH 3115 Functions and Modeling (for math majors only)	UTCH 4485 Student Teaching  UTCH 4795 Student Teaching Seminar  SPED 4115 Teaching Math & Science to Exceptional Learners

**Post-baccalaureate pathway**  
*(beginning Summer 2013)*

<b>Semester 1</b> <i>(requires starting in summer)</i>	<b>Semester 2</b>	<b>Semester 3*</b>
Step 1/2 (combined course, restricted to seniors and post-bacs)  UTCH 2105 Knowing and Learning  ITDS 2125 Historical Perspectives on Science & Math	UTCH 3205 Classroom Interactions  UTCH 4205 Project-Based Instruction  UTCH 2115 Research Methods  UTCH 3115 Functions and Modeling (for math majors only)	UTCH 4485 Student Teaching  UTCH 4795 Student Teaching Seminar  SPED 4115 Teaching Math & Science to Exceptional Learners

Apply for admission to Teacher Education upon completion of UTCH 1202 (see attached admission requirements).

Apply for admission to Student Teaching by September 15 if applying to student teach in spring semester or by January 15 if applying to student teach in fall semester (see attached admission requirements).

Students should meet with their assigned academic advisor to discuss core curriculum and content course requirements.

\*No other courses may be taken with student teaching unless an exception is approved by the UTeach Columbus Co-Directors.

## Requirements for Admission to Teacher Education

- Completion of UTCH 1202 with a grade of C or better.
- Completion of 45 earned semester hours in the core with an overall GPA of 2.50 or better on all transcripts **and** a CSU GPA of 2.50 or better.
- Maintain a CSU and overall GPA of 2.50 or better.
- Satisfactory performance on the GACE\* Basic Skills examination or an exemption based upon satisfactory scores on the SAT, ACT or GRE tests.

### GACE Basic Skills Exemption Scores

- SAT – 1000 (combination of Verbal and Math scores)
  - ACT – 43 (combination of English and Math scores)
- FBI national background check with fingerprints. This requirement must be completed no longer than 6 months prior to admittance to the Teacher Education Program. (The FBI national check may take up to 6 weeks to complete after the paperwork is mailed.)
  - Never been removed or denied admission to teacher education or student teaching from another institution.
  - Attend a required induction ceremony at the beginning of the following semester.
  - Failure to disclose information and/or submission of false information will result in immediate dismissal from the College of Education and Health Professions Teacher Education Program.

\*For information on GACE, go to <http://www.gace.nesinc.com/>

## Student Teaching

Students will spend one semester (15 weeks) in full-time teaching activities under the supervision of a classroom teacher in a middle or secondary school. Guidelines for admission to student teaching are as follows:

- Students must be recommended by their academic advisor before submitting their applications to the Coordinator of Student Teaching.
- Deadlines for submitting student teaching applications are September 15 for students applying to student teach spring semester and January 15 for students applying to student teach fall semester.
- Students must be members in good standing in the [Teacher Education Program](#) prior to submitting the student teaching application.
- Students must have satisfactory ratings on each component of both the MAP and the Dispositions Evaluations.
- Students must complete all courses related to major with a grade of "C" or better unless otherwise approved by the program coordinator.
- Background check through CSU campus police or [CertifiedBackground.com](#). For the check through [CertifiedBackground.com](#), your current address is included in the initial fee. For each additional address /county check, a fee of \$12.00 is charged. County fees are capped at four (i.e., at the most \$48.00).
- Students may not hold outside employment during the semester of student teaching without permission from the coordinator of student teaching.
- Students must hold current CPR/First Aid certificates (see [CQTL website](#) for registration information) and provide the Office of College Education and Health Professions Student Advising and Field Experiences proof of liability insurance before being allowed to register for student teaching course(s).
- Students who apply for student teaching must not have previously withdrawn from, been denied admission to, and/or been removed from student teaching at CSU or another institution unless otherwise approved by the coordinator of student teaching.