

Requirements

Min. Hrs.
Required

Course(s)
Fulfilled

REQUIRED COURSEWORK

Teacher Education Preparation Coursework:

Step 1 (UTS101)

Step 2 (UTS110)

EDC 365C or UTS 350 - Knowing and Learning

EDC 365D or UTS 355 - Classroom Interactions

EDC 365E or UTS 360 - Project Based Instruction

EDC 651S - Secondary School Teaching Practicum, Science or Math

UTS 170 - Student Teaching Seminar

Research Methods

Biology: 337-2; Chemistry: 368-1, or Physics: 341-7

STEM Teaching Explorations UTS 121F

Middle Grades Certification Only Complete the Following Coursework:

EDC 339F

STUDENTS MUST ALSO SELECT A CERTIFICATION AREA FROM ONE OF THE OPTIONS BELOW:

Composite Science Certification:

Students must select a primary field from one of the following: Biology, Chemistry, Physics or Geology (restricted to GEO majors) and complete a minimum of 24 hours in that field.

Primary Field BIOLOGY Course Requirements:

At least 24 hours in biology (BIO, INB, MBS) (some biochemistry and neuroscience courses may count), and six hours from chemistry (CH 301 and CH 302), three hours of geology (401, 303, 302C, 302E, 302G, 302M, 302N, 303E, 302J, OR 302T), and four hours of physics (PHY 302K and 105M, PHY 317K and 105M, PHY 303K and 105M, OR PHY 301 and 101L).

Primary Field CHEMISTRY Course Requirements:

At least 24 hours in chemistry, and three hours from biology (BIO 311C), three hours of geology (401, 303, 302C, 302E, 302G, 302M, 302N, 303E, 302J, OR 302T), and eight hours of physics (PHY 302K and 105M, PHY 317K and 105M, PHY 303K and 105M, OR PHY 301 and 101L).

Primary Field GEOLOGY Course Requirements (Restricted to Geology majors):

At least 24 hours in geology, and three hours from biology (BIO 311C), six hours of chemistry (CH 301, CH 302), and four of physics (PHY 302K and 105M, PHY 317K and 105M, PHY 303K and 105M, OR PHY 301 and 101L).

Primary Field PHYSICS:

At least 24 hours in physics, and three hours from biology (BIO 311C), six hours of chemistry (CH 301, CH 302), and three hours geology (401, 303, 302C, 302E, 302G, 302M, 302N, 303E, 302J, OR 302T).

Computer Science Certification:

For Computer Science majors only; no additional content courses.

Life Sciences Certification:

All courses must be majors level. Life sciences: At least 24 hours in biology

Mathematics Certification:

Calculus sequence (M 408C M 408D or equivalent), Mathematics 315C, 333L, choose one: M 325K, M328K, or M 340L/M341

Mathematics, Physical Science, Engineering Certification (Engineering Majors Only):

Mathematics 315C, 333L, Physics 303K and 105M, Physics 303L and 105N, and Chemistry 301. Senior Design Project counts in lieu of Research Methods (see above).

Physical Science (Physics and Chemistry) Certification:

For Chemistry Majors: PHY intro sequence, waves, modern, calculus sequence

For Physics Majors: M 408C + M 408D (or equivalent), CH 301 + 302 + two additional CH courses

Physics and Mathematics Certification:

For Math Majors: M 315C, M 333L, choose one: M 325K, M 328K, or M 340L/M341; PHY 301/101L, PHY 316/116L, PHY 315/115L, PHY 355 and 353L, nine hours of PHY

For Physics Majors: M 315C, M333L, choose one: M 325K, M328K, or M 340L/M341

POLICIES & PROCEDURES

In addition, students must meet the following requirements to graduate and be recommended for certification:

1. University grade point average of at least 2.50
2. Successful completion of secondary teacher certification and identified discipline specific content courses with a grade of at least C-. Lists of the required content courses and additional certification requirements are available in the UTeach-Natural Sciences office and online.
3. Successful passing of the teaching portfolio review, conducted by the UTeach Program in Natural Sciences