

Mathematics

Undergraduates seeking a Bachelor of Arts degree with a major in mathematics must choose either the standard option or the middle grades or secondary school teaching option.

Major: Standard Option

At least 24 semester hours of upper-division coursework in mathematics. Students must earn a grade of at least C- in each mathematics and science course required for the degree, and a University grade point average in these courses of at least 2.00.

The student must complete the following:

- a. One of the following sequences:
 - i. Mathematics 408C* and 408D
 - ii. Mathematics 408N and 408S
 - iii. Mathematics 408K and 408L

*Mathematics 408N and 408S, or 408K and 408L, may substitute for 408C;
- b. Mathematics 340L or 341;
- c. One course chosen from: Mathematics 325K or 328K, 343K, or 373K;
- d. Mathematics 361K or 365C;
- e. Mathematics 362K;
- f. To broaden the student's training, at least one course chosen from the following: Mathematics 333L, 339J, 339U, 343L, 343M, 344K, 348, 358K, 361, 367K, 368K, 372K, 374M, 376C, 378K;
- g. Nine additional hours of upper-division mathematics.

Major: Options in Mathematics for Middle Grades and Secondary School Teaching:

At least 24 semester hours of upper-division coursework in mathematics. Students must earn a grade of at least C- in each mathematics and science course required for the degree, and a grade point average in these courses of at least 2.00.

The teaching options are designed to give students the mathematical background appropriate for teaching middle grades and secondary school mathematics, but students must meet additional requirements, including grade point average requirements, to obtain certification.

Lists of the combined requirements of the UTeach-Natural Sciences certification programs and these options are available from the UTeach-Natural Sciences academic advisor and in the *Undergraduate Catalog*.

All students must complete the following:

- a. One of the following sequences:
 - i. Mathematics 408C* and 408D
 - ii. Mathematics 408N and 408S
 - iii. Mathematics 408K and 408L

*Mathematics 408N and 408S, or 408K and 408L, may substitute for 408C
- b. Mathematics 340L or 341
- c. Mathematics 315C, 333L, 358K, 362K, and either 325K or 328K
- d. Mathematics 375D
- e. Mathematics 361K or 365C
- f. Mathematics 343K or 373K

Students pursuing teacher certification through the UTeach-Natural Sciences program must also complete the following:

- g. Biology 337 (Topic 2: *Research Methods: UTeach*), Chemistry 368 (Topic 1: *Research Methods: UTeach*), or Physics 341 (Topic 7: *Research Methods: UTeach*);
- h. History 329U or Philosophy 329U;
- i. 18 semester hours of professional development coursework consisting of:
 - a. Curriculum and Instruction 651S
 - b. Curriculum and Instruction 365C or UTeach-Natural Sciences 350
 - c. Curriculum and Instruction 365D or UTeach-Natural Sciences 355
 - d. Curriculum and Instruction 365E or UTeach-Natural Sciences 360
 - e. UTeach-Natural Sciences 101, 110, and 170;
- j. For students seeking middle grades certification, the following courses: Educational Psychology 350G, or Psychology 301 and 304; and Curriculum and Instruction 339E

To graduate and be recommended for certification, students who follow the teaching option must have a University grade point average of at least 2.50. They must earn a grade of at least C- in the supporting course in requirement eight and in each of the professional development courses listed in requirement nine and must pass the final teaching portfolio review; those seeking middle grades certification must also earn a grade of at least C- in each of the courses listed in requirement 10. For information about the portfolio review and additional teacher certification requirements, students should consult the UTeach-Natural Sciences academic advisor.