

# MATHEMATICS FOR TEACHING, M.A.T.

This program provides an opportunity for secondary school teachers to broaden their background in mathematical science and connect this knowledge to current education practice.

## Graduate Transfer Credit

The student should submit transfer credit requests at the time of admission to the program director in order to receive credit toward the M.A.T. degree for graduate-level work taken at other regionally accredited colleges and universities. The request must be in writing with an official transcript for each course they wish to transfer. All course credit requested for transfer must have received a grade of at least 3.0 (B).

A student admitted to the M.A.T. program who holds a previous master's degree in education, a master's degree in a field other than education but that includes coursework in education, or a teaching credential may request to transfer graduate level coursework to partially fulfill the M.A.T.'s twelve to fifteen required semester hours in education as follows.

1. If the previous master's degree or teaching credential included coursework completed within five years prior to admittance to the M.A.T. program, the student holding a
  - master's degree in education may request to transfer up to 9 semester hours of transferrable graduate level education coursework;
  - master's degree in a field other than education but that included education coursework may request to transfer up to 6 semester hours of transferrable graduate level education coursework;
  - teaching credential may request to transfer up to 6 semester hours of transferrable graduate level education coursework.
2. If the previous master's degree or teaching credential was completed more than five years prior to admittance and the student can document sufficient significant continuing education (e.g., professional development, in-service days, seminars, conferences, mini-courses) completed within the five years prior to admittance, the student holding a
  - master's degree in education may request to transfer up to 9 semester hours of transferrable graduate level education coursework;
  - master's degree in a field other than education but that included education coursework may request to transfer up to 6 semester hours of transferrable graduate level education coursework;
  - teaching credential may request to transfer up to 6 semester hours of transferrable graduate level education coursework.

In all cases, what constitutes a sufficient amount of continuing education will be judged by the M.A.T. director and will normally be at least 100 hours of continuing education.

## Learning Outcomes

Students graduating from this program will have a deeper and richer understanding of mathematics. In particular, they will

1. Appreciate the aesthetics of mathematics
2. Have knowledge of how advanced mathematics is reflected in teaching high school mathematics

3. Be proficient at proof and problem solving, particularly as related to teaching high school mathematics
4. Be better prepared to assume a leadership role in the mathematics community at their schools.

## Admission Requirements

Students seeking admission to the Master of Arts in Teaching Mathematics program should have completed an undergraduate program in mathematics or a closely related field. The applicant must have completed a minimum of six upper division courses in Mathematics with a 3.0 ("B") average.

To be considered for admission, students must submit a Graduate Division application, the application fee, a statement of intent, and transcripts from all colleges/universities attended. A cumulative GPA of 3.0 as an undergraduate or a 3.0 GPA in at least 9 units of graduate level coursework is required. Two letters of recommendation addressing the student's mathematical background and teaching experience, if any, are also required.

## Program Requirements

During the first semester of attendance, the student should prepare a program of study with a faculty advisor. A degree candidate is required to complete, with an average grade of at least 3.0 ("B"), a program of study that may include prerequisite undergraduate-level coursework, and that must include thirty or more semester hours of graduate-level coursework, as deemed appropriate by the advisor in consultation with the department. Of the graduate level coursework, fifteen to eighteen semester hours are to be in Mathematics and twelve to fifteen in Education. The exact number of semester hours in Mathematics and Education will be determined in consultation with the department.