

M.S.

Mathematics ~~M.A.~~

DEPARTMENT

Department of Mathematics

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559.278.2992
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MN in Mathematics, Minor

~~MA in Mathematics, M.A.~~

MS in Mathematics, M.S.

~~MA in Mathematics - Teaching Option, M.A.~~ **MS in Mathematics - Teaching Option, M.S.**

BS in Mathematics - General Math Option, B.S.

BS in Mathematics - Pure Math Option, B.S.

BS in Mathematics - Applied Math Option, B.S.

BS in Mathematics - Statistics Option, B.S.

BS in Mathematics - Teaching Option, B.S.

BS in Mathematics - Integrated Credential Option, B.S.

CRED in Single Subject Credential - Mathematics

Courses Offered

Mathematics and related subjects play important dual roles in our culture. On the one hand, mathematics is a study in its own right; on the other hand, it is an indispensable tool for expressing and understanding ideas in the sciences, engineering, and an increasing number of other fields. As a consequence, employment opportunities for mathematicians have been expanding in recent years. The courses offered by the department are designed to develop skills in, and an appreciation and understanding of, both roles.

Because there are so many different areas in which a trained mathematician can find employment or continue studies, the department offers a large number of electives within the mathematics major. By selecting appropriate courses, students have considerable flexibility to accommodate their individual interests. Students should consult with a department adviser for specific recommendations as to which electives are suited to their career paths.

Electives in applied mathematics prepare students to assume positions in technical industries or government employment, or to continue advanced studies in the applied area.

Electives in pre-college teaching in mathematics provide students with the necessary background for obtaining a California Secondary Teaching Credential in mathematics. In order to complete the credential requirements, a fifth year of education courses, classroom observation, and practice teaching is needed. At the present time, there is an increasing demand for well-trained people in this area.

Electives in pure mathematics prepare students for the pursuit of graduate studies leading to advanced degrees and employment at the college or university level, or research in industries.

Electives in statistics and probability provide a foundation for students planning to work as statisticians for industry or government agencies. They also can enhance employment opportunities in the bioscience and health-related fields. Statistics courses (in addition to MATH 75 [or 75A and B], 76, and 77) are essential for the first two Actuarial Examinations offered by the Society of Actuaries.

REQUIREMENTS

Science

Master of Arts Degree Program Requirements

MS The ~~M.A.~~ in mathematics is designed for students who wish to study mathematics at an advanced level. Within this degree program, students may choose to complete the traditional track or the teaching option. The traditional track best satisfies the needs of students who wish to work in business or industry, teach at community college, or go on to pursue a Ph.D. in mathematics. The teaching option is designed especially for students who wish to enhance their high school mathematics teaching and/or assume a leadership role in high school mathematics education and beyond, or who wish to pursue a Ph.D. in mathematics education.

Course Requirements:

Master's Degree in Mathematics (M.A.) Traditional Track

Core curriculum (MATH 251, 271) [see Advising Note 2] (6 units)

Elective curriculum (A combination of approved courses - see Advising Note 1) (21 units)

Project (MATH 298) or Thesis (MATH 299) (3 units)

Total (30 units)

Additional Requirements:

- All students must attend a Plagiarism Workshop and sign the Mathematics Department's Honor Code Statement Regarding Academic Integrity and Plagiarism.
- In order to satisfy the University Graduate Writing Skills Requirement, the student must submit a formal paper demonstrating writing skill in mathematics at the graduate level. This graduate level paper may be a research proposal, a literature review in some mathematical area of interest, a paper from a directed research project, or some other paper that meets the objectives for the writing requirement as stated in "Satisfaction of the Graduate Writing Requirement," found in the Graduate Studies Handbook for the Master of Arts in Mathematics. Deadlines are given in that document.

Graduate Advising Notes

1. Under the direction of the department graduate adviser, each candidate should prepare and submit for approval a program of courses as early as possible.
2. All graduate students should obtain a copy of the Department of Mathematics Graduate Studies Handbook for more detailed information on the program requirements.
3. CI 250 has a prerequisite of CI 159.

Graduate Program

The Department of Mathematics offers a Master of Arts (M.A.) in Mathematics. A bachelor's degree is required in order to be admitted to a graduate program at California State University, Fresno.

In order to be admitted to classified graduate standing, applicants must have undergraduate preparation equivalent to a California State University, Fresno mathematics major and have a 3.0 grade point average in their upper-division mathematics courses. Applicants lacking the above preparation may be admitted conditionally. These students will become classified after meeting additional requirements as set by the graduate coordinator. Coursework taken to achieve classified standing may not be applied towards credits for the graduate program.

All applicants are required to take the GRE Mathematics subject test. Applicants' GRE Mathematics subject test scores are expected to be at least 500.

In addition, two letters of recommendation from faculty at the applicant's undergraduate institution are required. Letters should be sent directly to the graduate coordinator.

FACULTY

For faculty phone numbers and e-mail, see the campus directory.

For more on the faculty, see the faculty pages.

The faculty pages are updated by the department or program.

Name	Degree	Email	Phone
Allen, Nathan S	Master of Arts	nallen@csufresno.edu	
Amarasinghe, Thisath R	Doctor of Philosophy	ramarasi@csufresno.edu	559.278.4136
Amarasinghe, Tikiri K	Second Master of Science	tamarasinghe@csufresno.edu	