

MATHEMATICAL SCIENCES

Department of Mathematical Sciences
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Overview

The Department of Mathematical Sciences offers graduate programs of study leading to the Master of Science Degree in Mathematics. Two concentration tracks are offered: Pure Mathematics or Applied Mathematics, and a total of 30 credit hours are required to complete the program. The Department prepares its graduate students, in either of the two concentrations, for advanced graduate studies in mathematics or mathematics related areas, or for career opportunities in industry, government and education. The program is also appropriate for students interested in interdisciplinary graduate training in the sciences and engineering.

Students admitted to the graduate programs have available to them excellent computer facilities, and a choice of working with faculty members in specialized research areas. Research activities are mainly concentrated in the areas of complex dynamical systems, difference and differential equations and applied analysis.

Mission

The mission of the Department of Mathematical Sciences is to prepare students in the theory and applications of mathematics through a broad range of learning experiences and tools, including various computational methodologies, to succeed in advanced mathematics and mathematics related degree programs or to pursue mathematics related careers in private industry, government or education.

Vision

The vision of the Department of Mathematical Sciences is to be a major force in producing competitive scholars and recognized professionals in mathematics and mathematics related areas by equipping them with strong theoretical and research mathematics content using up-to-date technologies and forging collaborations with other related disciplines.

Admission Requirements

The admission requirement is a bachelor's degree with a strong undergraduate background in mathematics. Applicants with deficiencies in mathematics may be accepted subject to taking specified undergraduate courses in addition to the graduate program requirements. Applicants for the Master of Science Degree in Mathematics must also meet the General Admissions Requirements as published in the Graduate Catalog. The GRE is required.

- Mathematics, M.S. (<http://catalog.cau.edu/graduate/programs-study/arts-sciences/natural-sciences-mathematics/mathematical-sciences/mathematics-ms/>)