



“I came to CGU to challenge myself and apply mathematics to real world situations, and got far more than I could have imagined. The opportunities and overall atmosphere of CGU is highly conducive to achieving my goal of making a difference in the world.”

—Michael Franklin, *PhD student in Mathematics*

The School of Mathematical Sciences

With its emphasis on applied mathematics, the School of Mathematical Sciences at CGU is a leader in producing graduates who can apply advanced mathematical reasoning and problem-solving techniques to the most pressing problems facing society. As a result, our graduates go on to assume prominent positions in government, business, industry, and education.

One unique strength of our school is its Engineering and Industrial Mathematics Clinic, where student teams work under faculty supervision on challenging, real problems provided by industry or government agencies. The clinic experience is so successful that past projects have led to two patents and computational models that have outperformed industry standards.

In addition to degree programs in pure and applied mathematics, we also participate in partnerships with other schools to offer degrees in four areas of urgent national need:

- **Financial Engineering**, preparing students to design and evaluate complex financial products for the purpose of managing risk.
- **Computational and Systems Biology**, which uses mathematical modeling and computation to understand biological systems.
- **Computational Science**, which merges higher mathematics, computing, and innovative algorithm design to solve complex computational problems in science and engineering.
- **Engineering and Industrial Applied Mathematics**, merging graduate training in mathematics with one or more engineering disciplines.

As technology advances, so does the demand for people with graduate training in applied mathematics. Visit our website today for details on the broad range of fields open to our graduates. www.cgu.edu/math



MA, MS, PhD in Mathematics
(with optional concentration in *Applied Mathematics*)

PhD in Computational and Systems Biology
(jointly with Keck Graduate Institute)

PhD in Computational Science (jointly with San Diego State University)

PhD in Engineering and Industrial Applied Mathematics (jointly with California State University, Long Beach)

MS, PhD in Financial Engineering (in partnership with the Peter F. Drucker and Masatoshi Ito Graduate School of Management)



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