



Mathematics at CSUB

The Department offers a Bachelor of Science (B.S.) degree in Mathematics with five possible concentrations:

- Applied Mathematics
- Economics
- Statistics
- Teaching Mathematics (may include a blended option combining B.S. and Single Subject Credential)
- Theoretical Mathematics

The Department also offers a minor in Mathematics and a minor in Applied Statistics.

For working mathematics teachers, the Department of Mathematics offers a Master of Arts degree in Teaching Mathematics. The graduate program enables educators to build on their own experiences while deepening their understanding of the mathematics at the secondary school level.

To find out more about this exciting and challenging field, contact us at (661) 654-3151 or visit our website: www.csub.edu/math.

Department of Mathematics

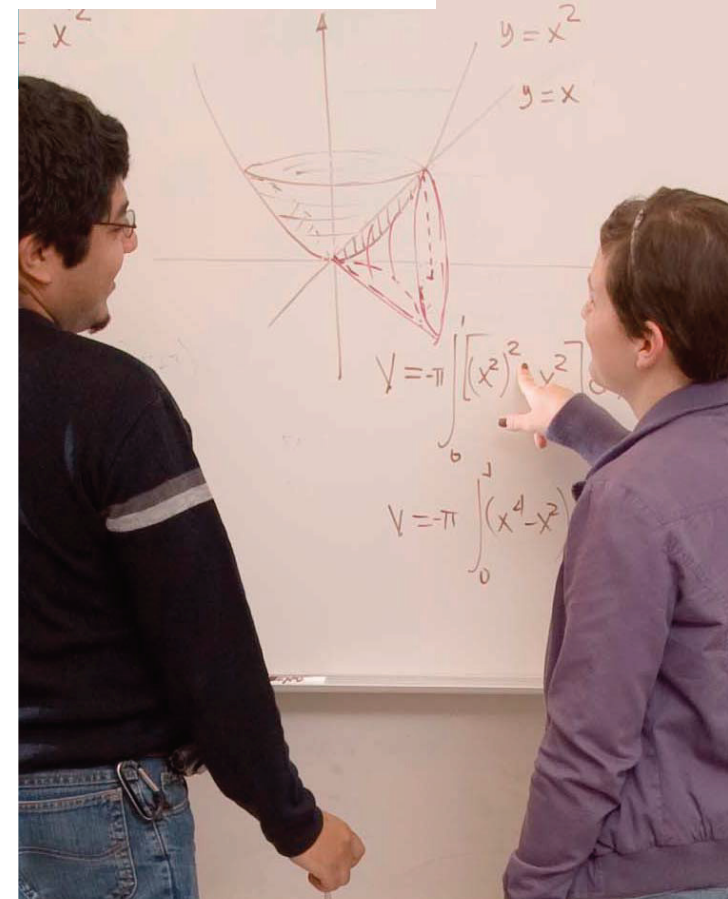
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CSU Bakersfield
School of Natural Sciences,
Mathematics, and Engineering

Prove the theorem for success!

With a degree in
Mathematics from
CSU Bakersfield





What is Mathematics?

Mathematics serves a dual purpose. It is both a science and a tool necessary for a broad spectrum of work, including universal applications in science, engineering, business, economics, psychology, political science and human affairs.

Applied mathematicians, such as economists and statisticians, develop techniques and approaches to solve practical problems in natural and social sciences, engineering, and other fields.

Theoretical, or "pure" mathematicians, devote themselves to mathematical science by discovering new principles and relationships among existing mathematics theories.

Making Mathematics Fun

In collaboration with the Kern County Superintendent of Schools and local industry, the CSUB Department of Mathematics hosts the regional MATH COUNTS competition for middle school students. The Department also hosts the annual Lee Webb Math Field Day, a fun all-day event for local high school students featuring challenges, competitions, skits, and a math bowl.



Choose Your Concentration

At CSUB, each Mathematics major chooses from five possible concentrations:

The *Applied Mathematics* concentration prepares students for careers in the mathematical sciences. This concentration includes courses in ordinary and partial differential equations, numerical and complex analysis, and probability and statistics.

The *Economics* concentration includes courses in algebra, real analysis, and probability and statistics, together with applications of microeconomics, macroeconomics, and econometrics.

The *Statistics* concentration includes courses in nonparametric statistics, regression, analysis of variance, probability theory, and mathematical statistics.

The *Teaching* concentration includes courses in geometry, algebra, probability and statistics, contact with teaching faculty, and experiences gained through student presentations in discussion and activity periods.

The *Theoretical* concentration focuses on graduate school preparation and includes advanced algebra, real and complex analysis, probability and statistics.

Award-Winning Faculty

The faculty members of the Department of Mathematics at CSU Bakersfield are passionate about their subject and its teaching. They help students discover both the importance and the beauty of mathematics by combining lectures with discussions, problem-solving activities, student presentations, and computer experience. Faculty members in the CSUB Department of Mathematics have received several university-wide honors, including three outstanding professor awards, two faculty research awards, and one award in leadership and service.

Career Opportunities

A degree in mathematics opens the most varied kinds of doors. In today's economy, having a B.S. or even a minor in Mathematics gives graduates the edge over other people seeking jobs. Salaries for mathematicians are substantially higher than average.

Career prospects are strongest for applied mathematicians and educators. Actuarial work, systems analysis, computer programming, economics, engineering, and natural sciences are other study concentrations that help make Mathematics graduates even more marketable.

"The CSUB Department of Mathematics offers a very strong educational experience. The highly talented faculty is both easily accessible and committed to high quality undergraduate instruction and mentoring. One leaves this department with a wealth of experience, quite well prepared to pursue a career in industry, academia, or the government. I certainly did."

Dr. William Ott
Assistant Professor of Mathematics,
University of Houston
CSUB Class of '98, B.S. Mathematics