B.S. in Mathematics
Prove the theorem for success

Degree Requirements
Students seeking a Bachelor of Science in Mathematics must complete the following courses:

- MATH 2510 Calculus I
- MATH 2520 Calculus II
- MATH 2610 Linear Algebra I
- MATH 3000 Mathematics Foundations
- MATH 3200 Probability Theory
- MATH 3520 Analysis I
- Graduation Writing Asst. requirement

Additional coursework in one of the following five concentrations:

**Applied Mathematics**
- MATH 2530, 2540, 3300, 3620, 4610, 4900
- one course from the following list: MATH 3310, 4300, 4500
- CMPS 2010 Programming I

**Pure Mathematics**
- MATH 2530, 3620, 4610, 4900
- one course from the following list: MATH 4520 or 4620
- Two courses from the following list: MATH 3400, 3500, or 4600
- CMPS 2010 Programming I

**Statistics**
- MATH 2200, 2530, 3210, 3620, 4200, 4210, 4220, 4900

**Teaching**
- MATH 3100, 3310, 3400, 3600, 4110, 4120, 4200, 4910
- CMPS 2010 Programming I

**Teaching Mathematics**

**(Blended Program)**

The Department of Mathematics offers a unique program that blends the single subject requirements in the mathematics teaching track with the pedagogy courses in CSUB’s School of Education Single Subject Credential Program, offering an integrated program of study in a little over four years. Students seeking the blended program in Mathematics must complete the following:

- MATH 3100, 3310, 3400, 3600, 4110, 4120, 4200, 4910
- CMPS 2010

**Minor in Mathematics**

Although no minor is required for the BS degree in Mathematics, a minor in Mathematics is available. The requirement is 16 units, at least 8 of which must be upper division. Lower division courses that can count are MATH 2020, 2320, 2520, 2530, and 2540. Upper division courses that do not count are MATH 3110 nor 3120. A minimum of eight upper division units must be completed at California State University Bakersfield.

**Minor in Applied Statistics**

Although no minor is required for the BS degree in Mathematics, a minor in Applied Statistics is available, consisting of 16 units chosen from MATH 2200 (or equivalent), 3200, 3210, 4200, 4210 and 4220. A minimum of eight upper division units must be completed at California State University Bakersfield.
Faculty and Staff

DEPARTMENT OF MATHEMATICS FULL-TIME FACULTY

- John Dirkse, Professor and Director of Academic Operations. *Statistics, Probability*
- Terran Felter, Lecturer. *Developmental Education*
- Joseph Fiedler, Professor. *Pedagogy of Computer Algebra Systems, Graph Theory*
- David Gove, Professor. *Number Theory, Math Field Day Organizer, Mathematics Seminar Coordinator*
- Shalini Gupta, Lecturer.
- Yangsuk Ko, Professor. *Partial Differential Equations, Calculus Coordinator*
- Charles Lam, Professor and Associate Chair. *Cryptography, Pre-calculus Coordinator*
- Rebecca Larson, Professor. *Lattice Theory, Community Tutoring Program Director, Math Counts Organizer*
- Janice Malouf, Lecturer. *Graph Theory*
- Eduardo Montoya, Associate Professor. *Mathematical Statistics, Applied Statistics, LSAMP Coordinator*
- Qiwei Sheng, Assistant Professor. *Applied Mathematics*
- Sophia Raczkowski, Professor and Department Chair. *Topological Groups and General Topology*
- Maureen Rush, Professor. *Computational Mathematics, Calculus for the Bio. and Chem. Sciences Coordinator*
- Brian Ryals, Assistant Professor. *Applied Mathematics*
- Shawnda Smith, Assistant Professor. *Mathematics Teacher Education, Liberal Studies Courses Coordinator*
- Prosper Torsu, Assistant Professor. *Applied Mathematics*
- Javier Trigos-Arrieta, Professor. *Topological Groups, MATH 2701 Coordinator*
- Bilin Zeng, Assistant Professor. *Statistics, Probability, Math Club Coordinator, Mathematics Tutoring Center Director*

Scholarships

- Arts and Sciences Merit Award Scholarship Program
- Kern County Science Foundation
- Louis Stokes Alliance for Minority Participation
- Mathematics Teacher Initiative
- National Science Scholars Program

ADMINISTRATIVE SUPPORT

- Sherean Bledsoe- ASC
- Sara Fazzi-Garcia- ASA