

Mathematics

Warriors on the Way to STEM

WOW2STEM

College of the Sequoias

The Mathematics Department has a reputation for quality programs. Our graduates are very successful in entering the careers of their choices, and a number of graduate fellowships are awarded to our graduates by many of the best known mathematics departments in the country. If that sounds

like a formula for success and you are up for the work, Mathematics just may be for you.

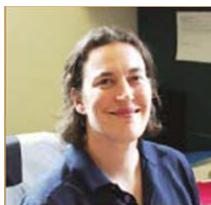
What can I do with a degree in Mathematics?

Speaking of counting, how many careers are available for those with Mathematics degrees? Possible careers/fields of work include: statistics, operational research, sabermetrics, teaching, consulting, computer programming, actuary, engineering, accounting, finance, and cryptology.

How can I participate in WOW2STEM?

- Meet with a STEM counselor each semester at your community college.
- Follow a student educational plan (SEP) as outlined by a STEM counselor.
- Attend presentations and workshops throughout the year.
- Follow application dates and deadlines as directed by the Transfer Advisor and Stanislaus State.

For more information you may contact:
Elizabeth Monroe, Transfer Specialist
209.667.3164
emonroe@csustan.edu
www.csustan.edu/STEM-success



Heather Coughlin is a professor in the Mathematics department at Stanislaus State. Her current “mathematical research focuses on monomial ideals in polynomial rings. Additionally, I have been working with the California Math Project at Stanislaus (formerly CCMP) to develop and implement high-quality professional development activities in mathematics for K-12 teachers. Finally, I am involved in a research project implementing supplemental instructions in Calculus I (Math 1410)”.

Mathematics B.A. Roadmap

Prerequisites to Lower-Division Courses	Lower-Division Courses at College of the Sequoias	Major Course Requirements at Stanislaus State
MATH 070	MATH 065 (Calculus 1)	MATH 3400- Set Theory and Logic (3 units)
MATH 065	MATH 066 (Calculus 2)	MATH 3600- Theory of Numbers (3 units)
MATH 066	MATH 067 (Calculus 3)	MATH 4130 - Real Analysis I (3 units)
MATH 230	MATH 021 (Intro. to Statistics)	MATH 4140 - Real Analysis II (3 units)
MATH 066	MATH 080 (Linear Algebra)	MATH 4530 - Abstract Algebra (3 units)
MATH 067	MATH 081 (Differential Equations)	Math 4600 - Complex Variables (3 units)
		Upper Division Electives (12 units)

Mathematics B.S. Roadmap

Prerequisites to Lower-Division Courses	Lower-Division Courses at College of the Sequoias	Major Course Requirements at Stanislaus State
MATH 070	MATH 065 (Calculus 1)	MATH 3230 - Differential Equations (3 units)
MATH 065	MATH 066 (Calculus 2)	MATH 3400- Set Theory and Logic (3 units)
MATH 066	MATH 067 (Calculus 3)	MATH 4130 - Real Analysis I (3 units)
MATH 230	MATH 021 (Intro. to Statistics)	MATH 4330- Numerical Analysis (3 units)
MATH 066	MATH 080 (Linear Algebra)	MATH 4430- Operations Research (3 units)
MATH 067	MATH 081 (Differential Equations)	MATH 4530 - Abstract Algebra (3 units)
MATH 070	CSCI 001 (Programming Concepts/Method 1)	MATH 4600 - Complex Variables (3 units)
		MATH 4630 - Probability Theory (3 units)
		Upper Division Electives (6 units)

Mathematics B.A. with the Mathematics Subject Matter Preparation Roadmap

Prerequisites to Lower-Division Courses	Lower-Division Courses at College of the Sequoias	Major Course Requirements at Stanislaus State
MATH 070	MATH 065 (Calculus 1)	MATH 1412 - Calculus I Laboratory (1 unit)
MATH 065	MATH 066 (Calculus 2)	MATH 1422- Calculus II Laboratory (1 unit)
MATH 066	MATH 067 (Calculus 3)	-----
MATH 230	MATH 021 (Intro. to Statistics)	MATH 30360 - Modern Geometry (3 units)
MATH 066	MATH 080 (Linear Algebra)	MATH 3110 - History of Math (3 units)
MATH 067	MATH 081 (Differential Equations)	MATH 3400—Set Theory & Logic (3 units) MATH 3600—Theory of Numbers (3 units) MATH 4020—Math for Secondary (3 units)
MATH 070	CSCI 001 (Programming Concepts/Method 1)	MATH 4022—Math for Secondary Lab (1 unit) MATH 4130—Real Analysis I (3 units) MATH 4530—Abstract Algebra (3 units) MATH 4630—Probability Theory (3 units) MATH 4960—Senior Seminar (3 units) Upper Division Electives (3 units)

For all degree requirements, visit www.csustan.edu/roadmaps