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 3600- Theory of Numbers (3 units) MATH 4130 - Real Analysis I (3 units) MATH 4140 - Real Analysis II (3 units) MATH 4530 - Abstract Algebra (3 units) Math 4600 - Complex Variables (3 units) Upper Division Electives (12 units)
MATH 065	MATH 066 (Calculus 2)	
MATH 066	MATH 067 (Calculus 3)	
MATH 230	MATH 021 (Intro. to Statistics)	
MATH 066	MATH 080 (Linear Algebra)	
MATH 067	MATH 081 (Differential Equations)	

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

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 1422- Calculus II Laboratory (1 unit) ---------- MATH 30360 - Modern Geometry (3 units) MATH 3110 - History of Math (3 units) MATH 3400—Set Theory & Logic (3 units) MATH 3600—Theory of Numbers (3 units) MATH 4020—Math for Secondary (3 units) 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)
MATH 065	MATH 066 (Calculus 2)	
MATH 066	MATH 067 (Calculus 3)	
MATH 230	MATH 021 (Intro. to Statistics)	
MATH 066	MATH 080 (Linear Algebra)	
MATH 067	MATH 081 (Differential Equations	
MATH 070	CSCI 001 (Programming Concepts/Method 1)	

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