



# CalTeach/MAST

Prepare to become a K-12 STEM teacher!

# Passionate about science and mathematics?

**Why go into K-12 STEM teaching?**  
*To lead, inspire, and innovate!*

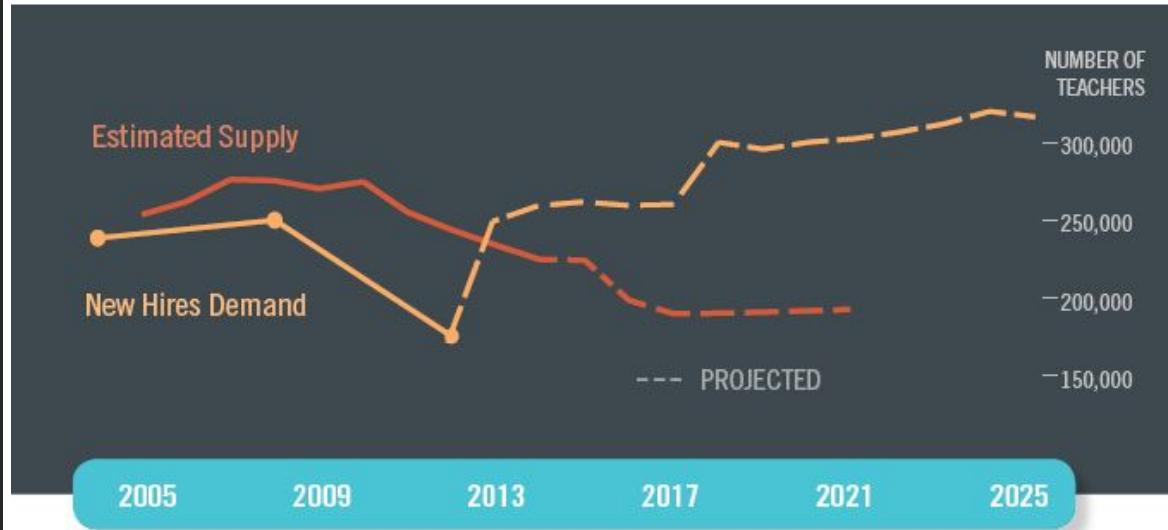


**Could you be the teacher**  
*who inspires the next generation of*  
*math and science students?*

Demand for teachers is growing nationwide

## TEACHER SUPPLY AND DEMAND PROJECTIONS

The Learning Policy Institute calculates that, if current market trends persist, U.S. schools could face an estimated shortfall of 112,000 teachers by 2018, with demand continuing to grow into the 2020s.



EDUCATION WEEK

SOURCE: Learning Policy Institute, interpretation of U.S. Department of Education data, 2016.

# What does CalTeach/MAST provide?

- Advising support
- Individualized mentoring
- Information about pathways towards a teaching credential
- Courses and internships to explore effective mathematics and science teaching practices.
- Opportunities to network with others interested in math or science teaching careers.
- Information about scholarships and opportunities
- Financial assistance for California Subject Examination for Teachers (CSETs) and California Basic Educational Skills Test (CBEST)

# Explore your interest in teaching!

## *K-12 Classroom Teaching Experience*

- Seminar/internship courses that will introduce you to teaching methods in classrooms
- Acquire required internship hours to enter a teaching credential program

## *Internship course components*

- Seminar-style lecture taught by a math/science education master teacher once a week.
- Internship under the guidance of a mentor teacher in a local K-12 or UC Davis classroom



# CalTeach/MAST Courses

*GEL/EDU 081, Learning in Science and Mathematics:* For college freshmen and sophomores and focuses on how individuals learn science and math in K-6 classrooms. (2 units, Grading: P/NP, GE credit: SS, VL, WE)

*GEL/EDU 181, Teaching in Science and Mathematics:* Aimed primarily at college sophomores and juniors. Identify learning needs of middle school students and create lesson plans to meet those needs. (2 units, Grading: P/NP, GE credit: SS, WE)

*GEL/EDU 183, Teaching High School Science and Mathematics:* For college juniors and seniors, concentrates on teaching STEM topics in a high school classroom. (3 units, Grading: Letter grading, GE credit: SocSci, OL, SS, WE)

*GEL 186, Facilitating Learning in STEM classrooms (Learning Assistant program):* Advanced seminar course for continuing CalTeach/MAST students.

# Learning Assistant Program: Facilitating Learning in STEM classrooms

- Assist the Teaching Assistant in an introductory Biology, Calculus, Chemistry, Physics, or Chemical Engineering (Spring) course, during discussion sections (minimum commitment: 2 discussion sections)
- Earn two credits: 1 unit from GEL 186 (taken concurrently) and 1 unit from the collaborating department.
- Want to become an LA? Email [mast@ucdavis.edu](mailto:mast@ucdavis.edu)



## Benefits of taking our classes:


- ✓ Satisfy GE credits\*
- ✓ Explore a career in education
- ✓ GEL/EDU 181 and 183 count toward a Minor in Education
- ✓ We help you set up internships
- ✓ Give back to the community
- ✓ Refine your own knowledge in math/science

\*Engineering majors need approval



# JOIN CMEC


Has an educator  
inspired your  
career choices?  
Are you interested  
in STEM  
education?

  
CALTEACH/MAST  
EDUCATORS  
CLUB  
AT UC DAVIS

CMEC

**HAVE YOU EVER BEEN  
INSPIRED BY A TEACHER?**

Join us and learn about the path of  
becoming a STEM educator. Meet  
other people interested in your field.

Contact us at: [CMECATUCD@Gmail.com](mailto:CMECATUCD@Gmail.com)  
 @ucdcalteachmast

Join us.



# JOIN CMEC!

CalTeach/MAST Educators Club:

[cmecatucd@gmail.com](mailto:cmecatucd@gmail.com)

*Our Vision-* The CalTeach/MAST Educators Club is a student organization, affiliated with CalTeach/MAST, designed to recruit and support undergraduates **interested in K-12 math and science teaching careers** and is committed to building an inclusive community of future STEM teachers.

*Our Mission-* To serve and represent UC Davis' future math and science educators, while embracing diversity and individuality.

- Offer valuable teacher-related resources
- Support in navigating pathways to become a teacher
- Provide opportunities to build professional and social networks and bonds.

Additionally, we are focused on cultivating a welcoming space that promotes overall well-being, growth, and development.



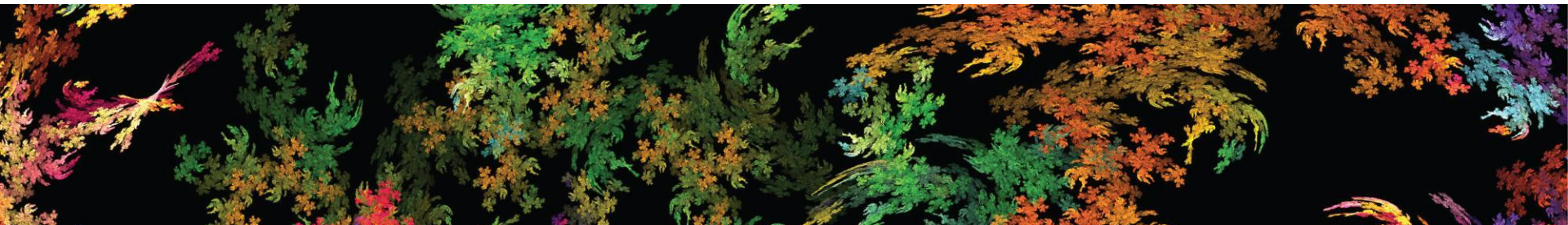
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