

STEM CORE

Foothill College | February 2016 | Issue 4

Scholarship Deadline

Applications for scholarships are due Thursday, February 16th! Don't wait to ask your instructors for letters of recommendation!

Did you know?

Foothill has over 50 clubs from student government to discovering new passions, interests, and friends! Here are a few of the STEM related clubs and meeting days:

Women in STEM (WiSTEM)
Fridays, 12-1pm in 4218

Engineering Club
Fridays, 12-5pm in 4750

Computer Science Club
Wednesdays, 3-5pm in 5602

A Look Ahead

Wednesday, 2/8 - MATH 48 Quiz #5

Thursday, 2/9 - ENGR 10 Midterm

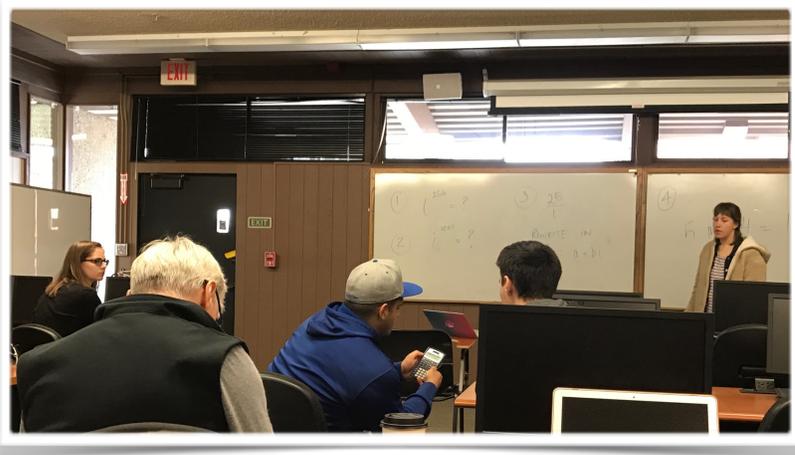
Wednesday, 2/15 - CS 1A Midterm

Thursday, 2/16 - MATH 48A Final

Friday 2/17-2/20 - President's Weekend, Campus Closed

Tuesday, 2/21 - MATH 48B Begins

Friday, 2/24 - MATH 48B Quiz #1



STEM Core students in a math workshop led by the embedded tutor

Winter Quarter Update Foothill's STEM Core students are making great strides this quarter! With an 8AM class that meets Monday through Friday, there is consistent attendance among students. This is a feat in itself as some of the students face long commutes, torrential downpours, and a full course load. Of the cohort, 11 students are registered in Object-Oriented Programming in Java, 2 are registered in Intermediate Software Design in Java, and 6 are registered for Introduction to Engineering.

Demographics Since Fall Quarter, the STEM Core cohort increased from 15 to 22 students. Demographics are as follows: *Females: 32%, Veterans: 5%, Underrepresented students 36%*. The underrepresented populations comprise of African American, Latino/a, and Filipino/a students.

Math Workshops Funded by the SVEPT grant, the embedded tutor, Rebecca E., leads one or two math workshops per week as a space for questions and answers in preparation for the quizzes and exams in the accelerated Math 48A course. Additionally, the STEM Core students created a study group in Foothill's Foundations Lab that

MATH 48A Workshops

Tuesday, February 14th 11-12pm
- Foundations Lab w/ Melissa
(STEM Center Tutor)

Tuesday, February 14th
1:45-2:45PM - RM 4306

Wednesday, February 15th
12:30-1:30PM - RM 4308

Welcome Aboard!

Last Fall, the STEM Core team invited Foothill Counselor, Leticia Serna, to be the program's point of contact for counseling services. We are excited to have her join the team! You are highly encouraged to meet with her to update your educational plans and transfer goals.

SVWiE Conference

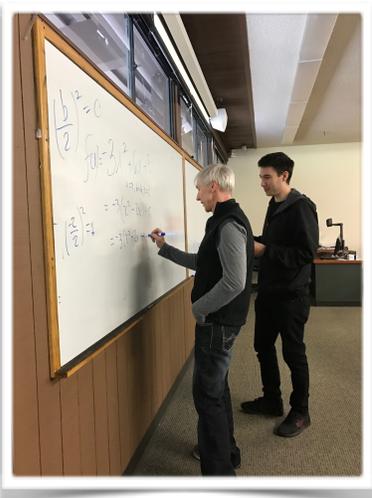
Are you an aspiring engineer? Would you like to hear empowering women give their insight in the field? Join SJSU for their Women in Engineering Conference at SJSU! For details email mirandadonna@fhda.edu.

San Jose State University
Saturday, March 25, 2017
8:30 a.m. - 7 p.m.

Inquiries

Donna Miranda
STEM Core Coordinator
mirandadonna@fhda.edu
650.949.7665

foothill.edu/stemcore



meets every Friday from 10AM - 11:30AM. The study group is overseen by STEM Center Tutor Melissa Wilkinson.

From the left: Ed M. and Zach D. practice problems before Wednesday's quiz.

Math 48A Statistics

On average, STEM Core students are performing higher than non-STEM Core peers during the accelerated quarter. In the past five weeks, students struggled with adapting to the pace of the course, the workload, and for some, a new teaching style. Though challenging, majority of the students are progressing through the course as they prepare for the Math 48A final on February 16th. Of the 28 students registered in the class, 22 are in the STEM Core cohort.

STEM Core Students	Quiz 1	Quiz 2	Exam 1	Quiz 3	Quiz 4
Mean	82	79.40476	72.5	74.75	81.25
Median	81.25	82.5	73	70	81.25
High	97.5	95	95	100	100
Low	67.5	55	51	45	42.5

Non-STEM Core Students	Quiz 1	Quiz 2	Exam 1	Quiz 3	Quiz 4
Mean	74.375	68.5	58.42	61	66
Median	76.25	70	57.75	72.5	70
High	87.5	85	74.5	80	82.5
Low	85	42.5	38	10	35

*Table comparing STEM Core student versus Non-STEM Core in the first four weeks of precalculus.
Provided by STEM Core Faculty, Zach Cembellin*

Student Spotlight Adrian B. is in his first year at Foothill College and joined STEM Core in Fall 2016. He joined STEM Core to better



his understanding in math and as an opportunity to explore STEM careers. Adrian is working towards a major in Chemical-Biology, in hopes of becoming an orthodontist or working in research. On his free time, Adrian works in his family's HVAC business and produces music.