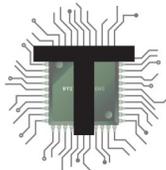


**PALOMAR
COLLEGE**

SCIENCE



TECHNOLOGY



ENGINEERING



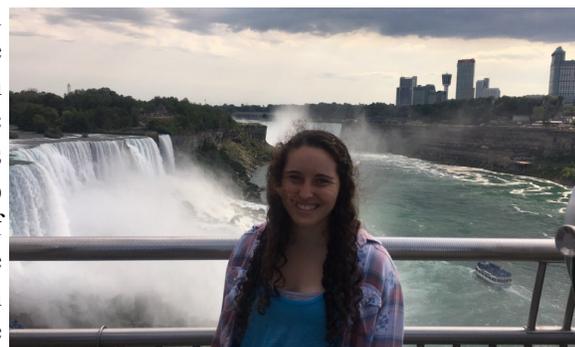
MATHEMATICS

WELCOME BACK

Hello everyone! We are happy to start the Fall semester with new and returning students. As some of you know, the STEM Center went through an expansion at the beginning of Spring 2016 and we are excited to see more students access our resources. This semester we will offer limited tutoring hours for students in Anatomy, Biology, Chemistry, Engineering, Physics and some Math. Tutoring will begin on August 29. We invite everyone to come check out our other resources which include counseling, textbooks, calculators, and two study rooms for groups to meet in. We also have 10 new computers for students to use. At the STEM Center, we invite you to use our resources, meet with our tutors, and enjoy an academic environment that inspires you to succeed. We look forward to your visit soon!

**SUMMER RESEARCH AT JOHNS HOPKINS
UNIVERSITY**

Victoria Marino is a tutor, Supplemental Instruction Leader, and STEM Scholar at the STEM Center. She assists students in understanding concepts in general and organic chemistry. During the summer of 2016, she was accepted into a summer research internship program at Johns Hopkins University School of Medicine in Baltimore, Maryland. She had the opportunity to work in a neurology lab under Tom Lloyd, M.D.-Ph.D who specializes in a disease called Inclusion Body Myositis (IBM). IBM is a



degenerative muscle disease with inflammation that is characterized by slowly progressive weakness and wasting of both the distal and proximal muscles, primarily in the arms and legs. Currently there is no treatment for IBM nor are there good animal models for this disease. She along with the team developed an animal model using Drosophila to study the hereditary form of IBM as it conserves the VCP mutation found in humans. The phenotype that they characterized with the expression of VCP was a dropped wing. They observed the flies' survival, climbing performance, and the penetrance of the dropped wing. They also conducted larvae and adult dissections to look at the anatomical level and stained for p62, a protein that is used to diagnose IBM by clinicians.



Beyond participating in cutting edge research, Victoria was exposed to a variety of specialties by attending weekly seminars and thesis presentations. Getting to hear all of the research that occurs across Johns Hopkins was inspiring for her. This experience has solidified her choice to pursue a career as an MD.-Ph.D. The Hopkins experience was not limited to solely lab work. She was able to go out and explore amazing places, including, Baltimore, New York City, Niagara Falls, and Washington D.C. She is grateful to have had this life changing experience and for the opportunity to be immersed in a new culture and an awesome environment.

**STEM
COUNSELORS**

Monday

9:00am-2:15pm

Tuesday

8:30 AM - 1:45 PM

& 2:30PM-5:30PM

Wednesday

8:30 AM - 1:45 PM

**BECOME A
STEM SCHOLAR**

Are you a US citizen or permanent resident and interested in pursuing an education in a STEM field? If so, then the STEM Scholars Program may be the perfect fit for you. For more information, visit www.palomar.edu/STEM or talk to a STEM Center staff member.

WANT MORE?

- ◆ www.fb.com/PalomarSTEM
- ◆ www.palomar.edu/STEM

CONTACT INFORMATION**STEM Center Staff Hours**

Monday– Thursday

8:00a-6:00p

Friday

8:00a-3:00p

760-744-1150, Ext. 2265

Jessica Perez Ambrocio

STEM Tutorial Specialist

760-744-1150, Ext. 2292

Mireya Gutiérrez-Agüero

HSI STEM Supervisor

760-744-1150, Ext. 3748