City College School of Math & Sciences

City College has one of the finest math and science programs for 2-year college students in the state. Our reputation is well known and lauded at all the local 4-year colleges. To maintain this well-deserved and positive reputation, we need to modernize our decades-old equipment and classrooms and demonstrate our commitment to the smart classrooms and interactive education of the future. To achieve this goal, we looking to develop partnerships with local leaders and industry and work together to create a joint vision of fundraising and advocacy for CCSF Math & Sciences.

Current Needs:
We are looking for partnerships and financial support to ensure that we can continue to offer high-quality, up-to-date, and pertinent educational experiences to the community we serve (transfer students, continuing education students, and job training). Needs include:

- **Upgrading instructional technology and remodeling and upgrading our lecture halls and lab rooms at the Ocean Campus to create state-of-the-art smart classrooms including:**
  - In-class computers that are well maintained updated every 5 years
  - Interactive white board technology or tablet mouses with pens
  - Built-in projector AV systems in all classrooms – versatile, well maintained, and universal – with computer control systems that include DVD and VCR use in all rooms
  - Modern, advanced lab equipment and furniture including binocular, optical quality compound microscopes, new lab benches, with computer monitors built in
  - Comfortable, useful desks and chairs – that can be easily cleaned, maintained, and that match and demonstrate the value we place on the educational experience
  - Server technology that will store DVDs, VCRs, and slide shows
  - Commitment to maintenance and upgrading of all IT infrastructure on a 5-year time frame
  - Wireless hotspots in all rooms
  - Clicker technology in all rooms
  - State of the art architectural plans to produce a sustainable, efficient, low-energy-need, inspiring education environment.

- **Expanding our program course offerings** to satisfy needs that currently are greater than sections we have available. (We have many bottleneck classes that prevent student from transferring into their chosen majors in a timely manner, because they can’t get into our classes! We need to be able to offer more classes to meet student need, and that means more units, more faculty, and more space.)

- **Providing internships, research opportunities**, mentoring, scholarships, and sponsored lectures or field trips for students that are participating in our majors, clubs, mentoring programs, and study halls.

- **Remodeling existing space to provide a study/activity/tutoring area** within the Science Hall, where all science students can work and study together.

Former CCSF science and math students tell their stories:

**Chun Wing Yeung** began his studies at CCSF in Spring 2004, and transferred to U.C. Berkeley in Fall 2006 to major in Electrical Engineering and Computer Science. He is currently enrolled in a Ph.D. program in U.C. Berkeley and doing low power transistor research.

“**I was given a chance to work as a Physics tutor and a Phys 4A grader in CCSF, and these experiences helped me to consolidate my Physics knowledge. The Physics knowledge acquired from CCSF not only helped me in my undergraduate work after I transferred, but it is equally important in my current research in device physics which requires Quantum Mechanics and Solid State Physics. I really appreciate the rich experience I had in the CCSF Physics department. Without this, I would have not been able to pursue this career as a scientist.”**
Emily Fox went to a high school that specialized in the arts, and didn’t have any science background before entering CCSF. She was married and working full-time, which made CCSF the ideal school to explore her career options. She spent five years at CCSF, where she worked in the biology storeroom and served as a biology mentor and organic chemistry tutor. She was awarded the Edwin Gin Biotechnology Scholarship and the Victor Hoy Sen Chow Biology Scholarship, and also received a Center for Science Education and Engineering Education Fellowship that gave her the opportunity to conduct research at Lawrence Berkeley Lab. She transferred to UC Berkeley in 2006, where she majored in Molecular Environmental Biology. She entered graduate school at UC San Francisco in 2008, where she is currently working on a PhD in biochemistry and molecular biology.

“CCSF was such a special place for me. Not only did I get a stellar education that fully prepared me for success in higher education, but I found science professors that were amazing mentors and role models. I also had opportunities for research and teaching experience, which allowed me to determine the right path for me, and enabled me to gain entry to the schools I was interested in. CCSF has a great reputation for a reason: it is a stepping stone to success.”

Yasuhiro Higashino came to City College from Japan. Yasuhiro is now a finalist for a math degree at the University of Leeds, UK.

“I was obliged to succeed my father’s business because of his fatal disease in my early twenties, and I have therefore been engaged in his business for a few decades in Japan. Yet my reading for spare time had only fuelled my desire to study in a university. Thus I decided to come back to a university after quite a long interval. I started my study with a Summer session at UC Berkeley. Since I got such information that every community college was offering opportunity to transfer into any UC or other US universities, I applied to CCSF. It was almost the best choice since CCSF is particularly sophisticated to offer learning skills for students whose first language is not English and who came from considerably different cultural and educational background. During 5 semesters of my stay at CCSF, I completed all classes offered from the Philosophy department and classes of the highest level available at the Mathematics department. Now I’m experiencing a little homesick for atmosphere of City College, which is unspeakably animated!”

Jack Love *I graduated high school in 1998, attended UCSD for the 98/99 academic year, then left formal education until 2005. I was working in a restaurant and not really moving anywhere. I went back to school at CCSF. I wasn’t sure what I wanted to do. I took classes in photography, engineering, printmaking, and AutoCAD. It was invaluable that CCSF allowed me to explore so many areas of interest. The areas were well-represented by competent and engaged faculty, and the courses were inexpensive. I started leaning toward the sciences. One day I chose mathematics as my field of study and have been pursuing it ever since. In May of 2010 I graduated from UC Berkeley with a BA in Pure Math. Currently I work in a wood shop where we specialize in fabricating mathematical models, where idealized Euclidean space meets harsh reality and production tolerances. I volunteer about 10 hours per week as a math tutor at the CCSF Learning Assistance Center. I really love the opportunity to engage with the students there; they are diverse and dedicated. Starting in January of 2011 I will be pursuing an MA in mathematics from San Francisco State University. After completing that program, I hope to return to City College of San Francisco as a member of the math faculty.*