

HIGH SCHOOL CONNECTIONS

FROM HIGH SCHOOL to GLENDALE COMMUNITY COLLEGE and BEYOND

All the Right Connections...

Glendale Community College's open access policy offers the possibility of higher education to anyone who can benefit from it. Every year, thousands of students enroll who, if not for GCC's accessibility and affordability, would otherwise not be able to attend college.

It's a common misconception that students must attend exclusive institutions to pursue advanced areas of study. While GCC is highly accessible and affordable, motivated students will find opportunities here to become directly involved in some of the most sophisticated scientific and industrial ventures in the world. If connecting students with leading work in fields like marine biology, hospitality and tourism, manufacturing and design and space exploration are not what you'd expect from your local community college, have a look inside—then take another look at GCC.

If you have questions, Student Outreach Services (SOS) is here to help. Call SOS: **(818) 240-1000 ext. 4-SOS (4767)** or visit our web site: www.glendale.edu/sos



**Hospitality and
Tourism Careers**



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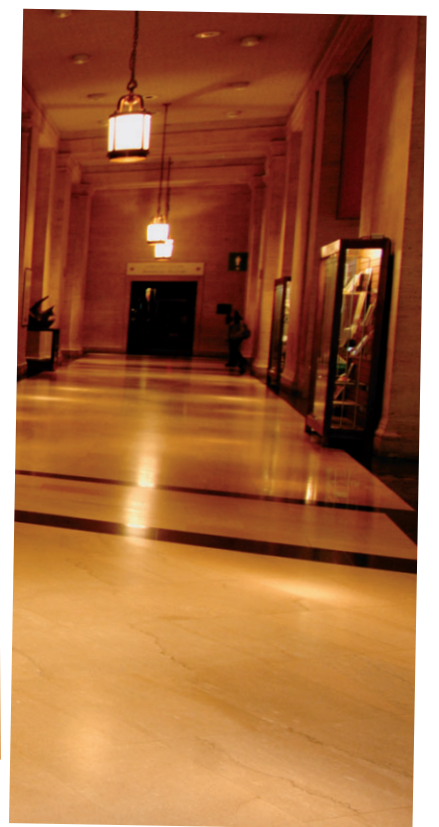
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A Day at the Museum

If you wander into the basement of the Natural History Museum of Los Angeles County, squeeze past an “Area Closed” sign that blocks a dimly-lit hallway, zigzag your way around lockers and exposed telephone wiring, you’ll eventually find yourself at a door labeled “Fishes.” Beyond this door lies the domain of GCC professor Dr. Javier Gago and a select few of his students who work with him as research interns.

Dr. Gago, who teaches biology and Baja California Field Studies at GCC, is also a Research Associate at the museum. “When I was working on my Ph.D. at USC, my faculty advisor was a researcher here at the museum,” he explained. “I became his research assistant, and have been able to continue my relationship with the museum up until now. This has allowed me to serve as an advisor for several GCC students, getting them involved in research projects that have the potential for publication in peer-review science journals. This is a rare opportunity for most community college students.”

The museum’s fishes research lab is equipped a lot like you’d expect any science lab to be—with computers, microscopes, exam tables, a library full of books, and a specimen room that’s lined with row after row of file vaults. It’s what’s inside these vaults that fascinates Katherine Gould. “Like a lot of other students, after going to Baja with Dr. Gago, I wanted to focus on marine biology,” she said. Last year, Dr. Gago picked her, along with fellow student Cynthia Ross to be two of the people who look after the animals in the tanks in GCC’s biology labs. “After I proved myself to be responsible in that job,



Megan Meyers, Katherine Gould, Dr. Javier Gago and Cynthia Ross with some of their favorite specimens in the Natural History Museum of Los Angeles County.

he asked me if I’d like to help with the research he does at the Natural History Museum,” she continued.

“Dr. Gago is studying the evolution of two families of deep-sea fishes. Cindy and I were each looking at a specific set of bones from both families to determine if there were similarities or differences that could clarify the evolutionary relationships among them. What I loved about it was being exposed to real, nitty-gritty research, which is not all fun-in-the-sun field work,” she said.

Like Katherine, Megan Meyers’ interest in marine biology caught fire on her trip to the GCC Baja Field Station. “I want to transfer to UC Santa Cruz because they have a strong marine biology program and they do

a lot of work with sharks,” says Megan, who is in her second year at GCC. “I’d love to be part of the first ever study to see how Great White sharks mate—no human has ever seen that before!”

Although Katherine and Cynthia both transferred to Cal State Northridge last fall, they continue working with Dr. Gago at the museum today. “There is no substitute for hands-on, practical experience and a good work ethic,” said Cynthia. “By getting involved in these things I’ve confirmed to myself that I chose the right course of study. You never know how you’ll feel about something until you try it, and if you’re pursuing your passion, the hard work doesn’t really feel like work,” she concluded.

Being Hospitable

What better way to learn the ins and outs of working in the hospitality industry than... by working in the hospitality industry? Through a special partnership GCC has with the Glendale Hilton and other area establishments, that’s exactly what students in the Hospitality and Restaurant Management program have been doing.

The program offers certificates in either nutrition, culinary arts or hospitality management. While basic certificates require completion of 17 college credits and advanced certificates require 38, students must complete six units of internship to qualify for either. At 48 hours of internship per unit, that adds up to 288 hours of on-the-job training. “This is a career technical education program—the need for hands-on experience is crucial before they graduate,” explained Michael Lao, Department Chair of Hospitality and Tourism Management at GCC.

Students are placed in positions at area hotels, restaurants and institutions, or they may intern in their current job. In order to do so, however, they must indicate three new things they want to learn and get their supervisor’s approval. “There has to be some growth,” said Michael, “and it’s been working out great. The feedback I get shows that when they approach their owner or manager and say ‘Although I’m currently a server, I would like to learn purchasing, payroll and scheduling,’ it actually opens up the eyes of the supervisor who says ‘Wow, you’re really showing interest in the business, maybe we should look at your potential for development.’”

Not surprisingly, students who excel at their internships usually get hired to continue working at the site.



Hospitality and Restaurant Management student interns (left to right) Dennis Ma, Wendy Dominguez, Roberto Duran and Noe Gomez at the Glendale Hilton with Department Chair Michael Lao (center).

Back in the classroom, students learn the business from top working professionals. Faculty members include Marvin Greenberg, Food Service Director at JPL; Bruce Ueno, General Manager, Sodexo at the Huntington Library & Botanical Gardens; Russell Tanakaya, General Manager of the Embassy Suites in Brea and Laurel Coote, owner of The Laureli Group, an event planning company. Their combined experience is a significant asset that’s made available for the students’ benefit.

At the GCC Garfield Campus, where tuition-free noncredit classes are offered to adults, many of the students are recent immigrants. While they may take classes in keyboarding, letter-writing, filing and office skills to improve their business English before entering the job market, they already possess

many other transferable skills and cultural virtues that are embraced by the hospitality and tourism industry.

With these students in mind, Rosemarie Shamieh, business instructor at Garfield, collaborated with Michael to develop two new introductory courses: Careers in Hospitality, which runs for 54 hours, and Introduction to Hospitality and Tourism, a 32-hour class. “We believe that spending 86 hours learning about the industry—getting some hands-on training and visiting hospitality establishments and institutions—will spark an interest in them,” said Michael. “It’s been very successful. We’re hoping that students will move on to take credit classes on the main campus to earn certificates. We’ve already seen about 25% of the first group of students do this.”

Hand Crafted in the USA

In the world of high-end mountain bike building, the name Brent Foes is synonymous with breakthrough innovation and race-tested performance. While it's true that each Foes bike frame is hand crafted in their Pasadena factory, there is an awful lot of automated machine technology involved in the process. In fact, if you look around any modern manufacturing plant in Southern California—whether they make aircraft, automotive, industrial or any other precisely tooled

parts—you'll see an array of computer numerical controlled (CNC) machines. These machines combine multiple tools—drills, saws, etc.—in a single computer-driven unit that is capable of producing parts that are accurate to within thousandths of an inch tolerance.

People who want to master the latest in manufacturing technology turn to GCC's Technology and Aviation division. People like Brent Foes.

Aram Ohanis, an instructor of Computer-Aided Manufacturing and Machine Technology at GCC, met Brent a few years ago and they quickly formed a relationship that benefits them both. "We had a long chat, and the next thing I know I was consulting for the company and doing prototype work for them at GCC,"



Brent Foes, owner and bicycle designer of Foes Racing (left) and Aram Ohanis, GCC Instructor of Computer-Aided Manufacturing and Machine Technology, at the Foes factory in Pasadena.

remembers Aram. "When I'm working on a bike design, I usually start by sketching the parts by hand," explained Brent. "At a certain point I'll need to turn those sketches into working models—something I can put together to see how they fit, how they move."

Back at GCC, Aram and his students convert Brent's sketches into CAD (Computer-Aided Design) drawings that can be used to make 3D models on the school's Rapid Prototyping (RP) machines. "We call them 3D printers," said Aram. "They're really quite similar to an ink jet printer, but instead of spraying ink on paper, they spray a very fine bead of resin. This resin hardens immediately, allowing it to build up into a 3D model.

"From a teaching standpoint, it's a great advantage to have real-world projects to work on," Aram continued. "It's one thing to have students making key chains and paper weights, but when a student can work on parts for high-quality products, that's a lesson they can take right to the workforce."

According to machinery and tool salespeople—those who circulate the most in the industry—GCC is the best educational institution in the field in Southern California. "Our equipment, software, classes we teach and the way we teach them are the most desired and used by the industry, and our enrollment backs this up," said Aram.

The department attracts a lot of working professionals who are retraining due to advancements in technology, as well as students from other schools like Woodbury, Art Center, USC and Sci-Arc (Southern California Institute of Architecture). "These students come to learn digital fabrication in order to improve their outcome on school projects, which in turn will improve their chances in today's competitive job market. Someone who comes here for retraining can qualify for a pay raise in their current job in as little as two to four months worth of schooling," Aram explained.

Of course, being the best in your field doesn't mean you can rest on your accomplishments. "We'll never stop improving and introducing other equipment, software and new technologies to our program," concluded Aram.

Mission from Mars

There's a legendary center of science and space exploration located right in our own backyard. If you've never heard of Jet Propulsion Laboratory (JPL) in Pasadena, you're probably from somewhere outside our solar system. That's because, since they built America's first satellite in 1958, JPL has dispatched a multitude of spacecraft far and wide—on missions to examine asteroids, moons, every planet in our system and even the land, oceans and atmosphere of our home planet, Earth.

All this exploration produces a lot of data. Tons of it. Since NASA budgets get eaten up quickly on hardware, there was a real need for help to go through it all. There was also a strong desire by the JPL Education Office and scientists to increase interaction with students—to better prepare them for careers in science and engineering. That's how the Student Independent Research Internship (SIRI) program came to be.

Beginning in 2003, with just eight students from Glendale and Pasadena colleges, the program now takes on students from local four-year universities as well. Schools like USC, UCLA and Cal Poly Pomona.

"This is an incredible opportunity for anyone, but often it's the Glendale College students who outperform their counterparts from the four-year schools," said Rick Guglielmino, assistant professor of physics and SIRI program coordinator at GCC. "I think it's because they're so motivated—they just work harder."

This program is not for everyone, though. Internship opportunities are announced by JPL and applicants are carefully screened. "We rely on the judgement of the faculty sponsor," said Richard Alvidrez, administrator of the SIRI program at JPL. "The program works best when it links students that have an interest in our work through specific majors—engineering, physical science and computer science, for example. Rick has to have an opportunity to observe the student's work in his classes before they should become interested in applying to SIRI."

If students benefit by working with JPL scientists on real-world projects, wouldn't faculty members too? Taking the next logical step, four GCC faculty members recently participated in JPL's Summer Faculty Research Program. When applying for the program, the faculty members outlined what they wanted to research and/or learn and how they would use it in their teaching. They were then each assigned full time to a JPL mentor to work on a current mission or project.

"Dania de Jonghe was one of the first art students to intern at JPL," explained Joan Watanabe, instructor of photography at GCC. "Her project was to create planetarium shows from the images sent back by the Mars Rovers. It required a lot of retouching and digital manipulation." Peter Moyes, another student intern, and Joan joined her on the project, and later two more

students worked with her as well. "I brought Mars images into my classes at GCC for students to work on. Overall, it took a couple of years to complete, and Dania has continued working at the JPL imaging lab as a Research Associate," said Joan.

Oceanography instructor Laura Tenenbaum and astronomy instructor James Somers have also continued their work with JPL. Laura is developing curriculum for a new college course on climate change and James routinely brings students to the Table Mountain Observatory in Wrightwood to help with his project classifying Near Earth Objects. "Two weeks ago, we thought we had discovered a comet, he said. "Turns out, it was just an asteroid. We were pretty excited for a while, but that's the nature of research, and it was a great learning experience."



In the GCC planetarium with a Mars landscape on the dome are: (seated, left to right) Laura Tenenbaum, Richard Alvidrez, Joan Watanabe, James Somers, (standing) Dania de Jonghe and Peter Moyes.

Increase Your Chances of Getting the Classes You Need!

The news has been full of stories lately about the financial hard times we're facing, but you might not know how this can affect you—a graduating high school senior who is planning to attend college. Here are some things you should be aware of: CSU and UC schools are reducing admissions for graduating high school seniors; admission to private colleges is even more competitive; jobs are harder to find, especially for high school graduates, so record numbers will attempt to attend college; laid-off workers are returning to community colleges for job skills and training; more students than ever are turning to community colleges as an affordable alternative to four-year schools and; CSU and UC schools are increasing the number students they admit as **transfers** from community colleges. Achieve your educational goals—**act now!**

Tips for Success:

- **Complete all of these steps as soon as possible**—the sooner you register for classes, the better your chances of getting the classes you want.
 - **1 Apply for admission**—your first step toward attending Glendale Community College
 - **2 Take assessment tests**—you will have more class options when you register
 - **3 Make an appointment to see your assigned counselor**—together you will develop your Student Educational Plan (SEP)
 - **4 Complete online orientation**—go to www.glendale.edu/orientation
- **Apply for Financial Aid online NOW**—if you qualify, you will have money ready to pay for books and enrollment fees and other expenses. Apply at www.fafsa.ed.gov
- **Apply for Scholarships**—over \$300,000 is available through the GCC Scholarship Program. Once you have completed 12 units at GCC, apply online at www.glendale.edu/scholarships

Apply for one of these special cohort groups or programs.

Each of the following programs offer students priority registration advantages, but that's just the beginning. Depending on the type of student you are, you may also receive scholarship funds, special counseling, mentoring, tutoring, transfer assistance and more. **Apply NOW!**

Scholars

The Glendale College Scholars program offers many opportunities and advantages to qualified students, including: priority registration for all your classes; guaranteed priority consideration for transfer to numerous colleges, including UCI, UCR, UCSC and UCLA; an assigned counselor; smaller class sizes (honors classes); prestigious "Scholars Program" seal on all transcripts of scholars who complete the program in good standing. Call **(818) 240-1000 ext. 5884** or see www.glendale.edu/scholars for more information.

Achieving College Excellence (ACE)

The ACE program is designed for students who enter GCC not yet ready for college-level English and/or math, but want to transfer to a four-year university in two years. ACE students are guaranteed enrollment in all ACE classes, are guided by instructors who collaborate to provide an integrated curriculum, and have access to services such as supplemental instruction, tutoring and mentoring, among other things. To learn more, call **(818) 240-1000, ext 5397**, or see www.glendale.edu/ace.

MASTER Scholarship Program

Students demonstrating financial need who are interested in majoring in the sciences, engineering or mathematics can apply to be part of the Mathematics and Science Transfer Excellence and Retention (MASTER) scholarship program. Students who are accepted into this program receive various benefits including financial and transfer assistance, and priority registration for MASTER program classes. Call **(818) 240-1000 ext. 5378** or see www.glendale.edu/master for more information.



Get to Know Student Outreach Services

Welcome to Student Outreach Services (SOS)! My name is Alen R. Andriassian and I'm the Manager of Outreach and Assessment. If you have a question about GCC and don't know who to ask, contact SOS and we'll be happy to assist you. Our friendly staff and student ambassadors are here to help ease your transition to college through high school advising visits, campus tours, college presentations, financial aid seminars, application workshops, Shadow Days, GCC Bound, and so much more. How easy is it to become a GCC student? It's as simple as SOS!



Hi, my name is Olga Tovar and I am responsible for the GCC Campus Tours program. I'll be delighted to organize an individual or group campus tour tailored to your interests. Please don't hesitate to contact me via e-mail at otovar@glendale.edu.

Hi, my name is Henan Joof. As the Outreach Coordinator at GCC, my job is to help you find the resources and support services you need to achieve your goals. One way the SOS staff does this is by regularly visiting high schools to advise students on the college's admissions process and the educational opportunities available at GCC. If you are interested in finding out when and where to meet with an SOS representative at your school, visit us on the web at www.glendale.edu/sos. Please e-mail me at hjoof@glendale.edu if you have any questions.



My name is Meg Chil-Gevorkyan and I can help you enroll at GCC through the Jump Start program. Jump Start allows you to take college classes while you are still in high school. Whether you want to take a class for enrichment or get an early start on college, the SOS office can help you with the Jump Start application process. SOS representatives visit your high school on a regular basis—look for us during lunch or sign up to see us in your high school career center. If you have any questions, please e-mail me at meg@glendale.edu.

Hello, my name is Armineh Gourgian. I coordinate the Shadow Days Mentoring Program and financial aid outreach services. Each year more than 1,000 high school students take part in Shadow Days and visit our campus to experience a day in the life of a GCC student. Shadow Days participants get to attend a college class, learn about GCC's academic programs and support services, and connect with GCC student mentors. Also, if you are interested in college financial aid programs, I organize FAFSA workshops and give financial aid presentations for students and parents. Please feel free to e-mail me at arminehg@glendale.edu if you have any questions.



Do you have any questions about Glendale Community College? Would you like us to mail you information about our programs? How about a campus tour? Please call Student Outreach Services: (818) 240-1000 ext. 4-SOS (4767). We will be happy to assist you.