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Are Limitless
with Computer
Technology**

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Technology**

**Helps Student
Realize
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CareerFocus

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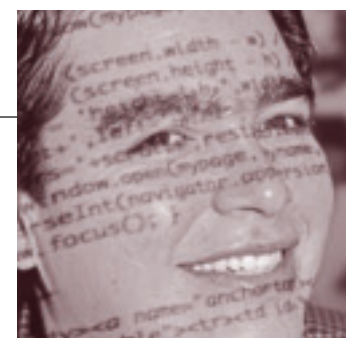
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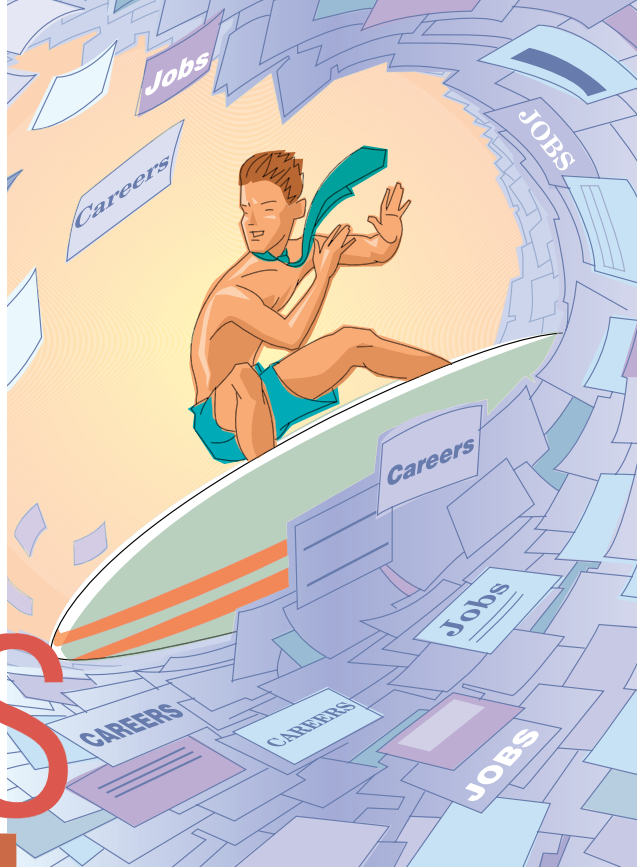
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On the cover:
 Santa Ana College student David Tran, owner of CDT Engineering in Placentia, is enrolled in the manufacturing technology program.



Facts AND Finds

Don't Be a Jerk at Work

We're too polite to print the full title but we're still impressed with Robert I. Sutton's book *The No A**holes Rule – Building a Civilized Workplace and Surviving One That Isn't*. The message – despite the title – is that boorish, inconsiderate and demeaning people ruin the workplace for others, cost the company dollars and shouldn't be tolerated.

Read Sutton's blog at bobsutton.typepad.com and take the ARSE to find out if you're a jerk or not. **CF**



Parents Who Hover Too Much

Parents of the Millennial Generation probably are already familiar with the term "helicopter parent," which refers to their supposed tendency to "hover" over their offspring's every move and be way-too-involved in every decision.

This reputation may be more hype than reality based on a survey of those supposedly coddled kids conducted by The College Board.

Based on the responses of 1,778 high school seniors, the picture painted is one of parents with a healthy involvement in their kid's lives without a lot of micro-management. Here's a sampling of the results:

- 51 percent of parents are involved in helping their high school senior choose a college.

A New Wave of Career Sites

There's more to job hunting than posting a resume on the Web. A crop of new Web sites recognize this, and they are taking different approaches to connecting employees and employers. Here are a few sites worth exploring:

QuietAgent

What eHarmony did for online dating, QuietAgent does for job searching. Job hunters provide basic information about themselves and employers extend "invitations" to provide

further information if interested. (quietagent.com)

SimplyHired

This "vertical search engine" draws on many job boards and sources to provide users with a myriad of job postings based on their geographic area and career interests. (simplyhired.com)

LinkedIn

Think Classmate.com combined with FaceBook and you have a good idea of what LinkedIn's "relationship networking" is all about. (linkedin.com) **CF**

Are You a Helicopter Parent?

Do you micro-manage everything from what your kid eats to what he wants to do with his life? Are you too involved with his teachers, coaches, college admission counselors and even bosses? And yes we said he, because if your child is male you're more likely to fit the profile.

To find out if you need to let go a little and allow him to make his own decision, take the quiz at collegeboard.com/helicopterquiz.

More Work but Not More Money

Who puts in the most hours on the job? According to data published in the *Occupational Outlook Quarterly* (Winter 2006-07), managers of all kinds are most likely to be on the job more than 55 hours a week. The next hardest working bunch is agricultural workers. And after that it's the professionals (especially lawyers, doctors and clergy) who are in the office late.

At the other end of the spectrum, occupations where workers can count on regular hours (a 35 – 44 hour work week) include nurses, correctional officers, waiters and waitresses, bookkeepers, stock clerks, secretaries and other office support workers.

For many workers, more hours translates into more money, but that's not always the case. Hourly employees, for example, have more incentive to work long days than salaried workers do. But still, many hard working salaried employees make more per hour than their out-of-the-office-at-five colleagues – probably because the boss rewards their hard work with a raise.

In which occupations does more work really mean a bigger paycheck? Not surprisingly salespeople reap the biggest rewards for long hours (think commission) as do production workers (think overtime).

And who actually loses money by staying late? Teachers, clergy and social workers – all professions that are likely to be salaried with no overtime pay. **CF**

Source: www.bls.gov

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Are you happy? Yes? No? Find out why

University of Michigan professor of psychology Norbert Schwartz has devoted his career to the study of happiness and he's got a few insights for the rest of us. And a few surprises.

Come to CareerFocus Café online to hear what he has to say about how money, your career choices and your day-to-day life can affect your happiness.

CareerFocus Café (www.careerfocuscafe.com) is the new online video companion to CareerFocus magazine. Host Lani Garcia introduces us to book authors, experts and extraordinary people. All have something to tell us about career choices, job hunting and the world of work. So, drop by and see what we're talking about. **CF**



Listen to Your Heart's Desire

It's going to take you where you need to go

By Cathy J. Smillie

What's your dream job? How about one in which you spend your day in a playground of creativity, where workspaces resemble tiki huts and castles, and between meetings you relax in a red velvet "Love Lounge" or take dips in the company pool. This is what it's like at Pixar Animation Studios, the company responsible for gigantic hits such as *Toy Story*, *Monsters, Inc.*, *Finding Nemo* and *The Incredibles*.

Fat chance you'll end up in a place like that you say. You just want to earn a good living, buy a house, get a dog, raise a family and make your parents proud. That's the best you can hope for.

Well, maybe...

Pixar was the brainchild of Steven Jobs, co-founder of Apple Computer. Last May, The Walt Disney Company acquired Pixar for more than \$7 billion and Steven Jobs became Disney's largest shareholder. And how did he achieve this kind of success? According to the commencement address he delivered to Stanford University's 2005 graduating class: You've got to do what you love.

"Your work is going to fill a large part of your life, and the only way to be truly satisfied is to do what you believe is great work," Jobs said. "And the only way to do great work is to love what you do."

Trust your instincts

Jobs took the Stanford students through a personal odyssey filled with curiosity, confusion, failure (he was later fired by Apple) and

fortune. "Much of what I stumbled into by following my curiosity and intuition turned out to be priceless later on," he says.

Jobs described a calligraphy class he took at Reed College in Oregon. "I had dropped out of college and didn't have to take the normal classes so I decided to enroll in a calligraphy class. I learned about serif and sans serif typefaces, about varying the amount of space between different letter combinations and what makes typography great. It was beautiful, historical, artistically subtle and I found it fascinating.

"None of this had even a hope of any practical application in my life. But ten years later, when we were designing the first Macintosh computer, the calligraphy training came back to me. And we designed it into the Mac, the first computer with beautiful typography.

"You have to trust in something — your gut, destiny, life, karma, whatever," Jobs says. "This approach has never let me down, and it has made all the difference in my life."

What do I want?

To many of us, doing what we love feels undirected, frivolous, even frightening. Often our goals are based on the needs and expectations of others and we get trapped into thinking this is the way it has to be.

Life and executive coach Michael Stoller of Career Rocket Coaching in Chicago consults with clients ranging from young urban males struggling to find direction, to professionals bored and frustrated because they abandoned their true interests in favor of money, prestige or security.

"Some people come to see me after years in the workforce," he says. "They have good jobs and good relationships with their families, but they're thinking 'There's got to be more to life than this.' They tell me they want to learn how to use their skills and passions to make a life.

"I find that my clients are really smart in knowing what they want," he adds. "They just need someone to listen to them. I provide the question: 'What do you want?' Then I support the idea that they can get it."

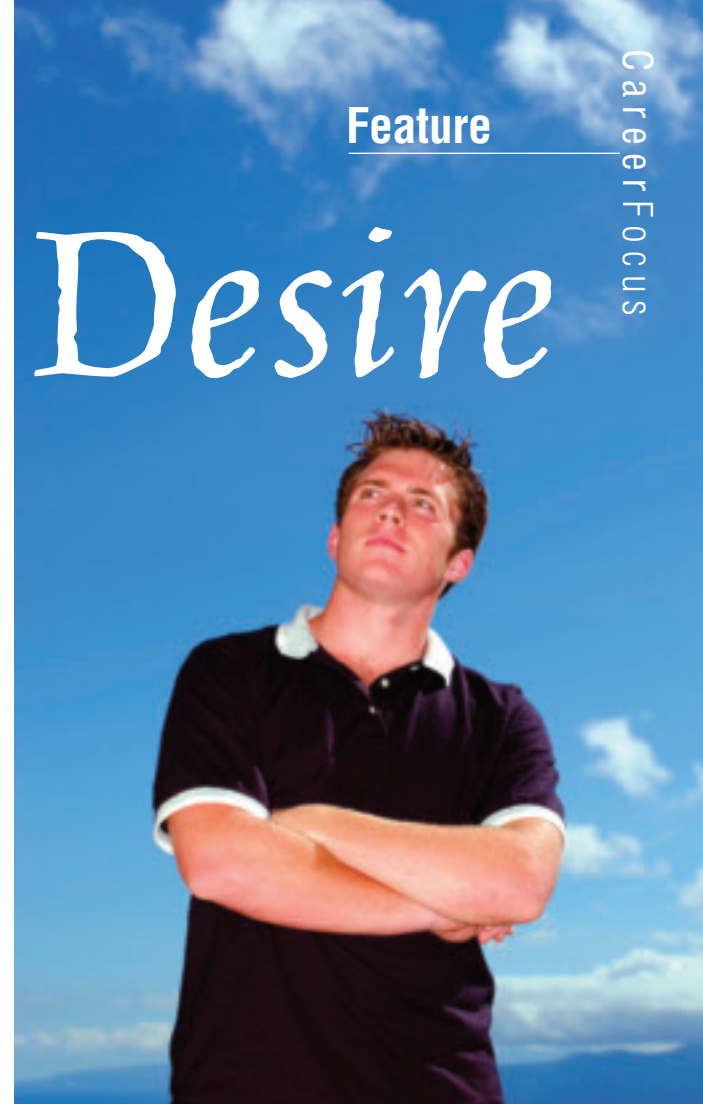
The first step is identifying the beliefs that get in people's way — the rules and obligations that family, teachers, or society places on us — "the shoulds" Stoller calls them: "You should be a teacher, lawyer, accountant." Stoller tells his clients to stop listening to the "shoulds" and start visualizing the "coulds" — the future they'd really like to have. Then he asks them to describe one step they can take to get there. One step turns into two steps, and slowly his clients begin to realize their dreams.

For example, one woman loves to sing. She fantasizes herself recording albums or leading a band. Stoller says "Great! Go for it!" So, she tries it out but she finds that she doesn't like the hectic pace of performing each night, or she

discovers that her voice is not as strong as she thought. So, she and Stoller brainstorm other options such as joining the local theater group or singing in the church choir. "They don't give up the initial, core desire," he explains, "but they need to go down a pathway to see what it takes to do what they want to do."

Stoller tells the story of his life insurance salesman. "When he discovered what I did, he began to talk with me about his own life — he wasn't happy selling life insurance, but he didn't know what he wanted to do. We worked together on this process, and now he's a minister in a Korean church. And, he's very satisfied with his life."

"When people are doing what they want, they're happy and fun to be around," Stoller says. "There's an aliveness in their voices, a radiance and energy about them." **CF**



"Your time is limited, don't waste it living someone else's life."

Steven Jobs

Gearing Up for a Cutting-Edge Career in Manufacturing Technology

By Judy Iannaccone

Whether you're already working in the world of manufacturing as a machinist or a computer numerically controlled (CNC) machine operator, or if you're looking to enter this expanding field, Santa Ana College (SAC) will help you achieve your goals. If you enjoy working with your head and your hands, have an aptitude for mechanical things, have basic math skills and an understanding of spatial relationships, this may be the field for you.

Precision Machinists Are In Demand

Career skills in demand include CNC machine operation, computer-aided manufacturing (CAM) applications, conventional machining, CNC milling operations, CNC turning with live tooling, and SolidWorks 3D solids modeling to name a few. Manufacturing technology is part of all industries, including automotive, aerospace, metalworking, business machines, appliances, electronics, construction equipment, plastics, transportation, and energy generation.

Most machinists work in small machine shops, while others work in large factories. The machine shop of the 21st century is clean,

well lit and well ventilated to keep expensive, high-tech lathes and milling machines running smoothly. Machinists must exercise caution in and around machines as they cut away material from a solid block of metal, plastic, or glass to form a finished part. They may produce large quantities of one part or produce small numbers of more unique pieces or prototypes.

Wherever a machinist may work and whatever he or she may produce, one thing is certain, there is a growing need for the skill. According to the state's Employment Development Department, in the next ten years, more than 2,400 job openings are projected for CNC machine operators, CNC machinists and programmers in Orange County. An

additional 5,000 workers in other specialties such as tool and die maker, mold maker, and prototype machinist requiring advanced skills using conventional machines, will also be required.

Starting salaries range from \$1,400 to \$2,200 per month. Top salaries can range between \$40,000 and \$60,000 per year and more with overtime. Most of these positions include full benefits—sick pay, vacation, and health insurance.

Quality Hands-On Instruction Makes the Difference

Recognized for its innovative technology programs, SAC prepares students for rewarding careers in manufacturing technology.



Student Profile



Manufacturing Technology Program Provides Roadmap to Success

By Judy Iannaccone

After earning his bachelor's degree in engineering from Rensselaer Polytechnic Institute, David Tran never imagined that he would turn to a community college for career enhancement.

"I want to advance myself by starting an engineering company," said 33-year-old Tran. "The manufacturing technology coursework at Santa Ana College (SAC) is providing me with a roadmap to open my own machine shop."

After college graduation, Tran launched a career as an engineer on the East Coast. Later, after he got married and moved to California, he held two engineering positions at local firms, but he wanted something more for his growing family—he wanted his own company.

"My main focus is to create something for my children," said the father of two. "I want to show them how to be successful."



"I want to advance myself by starting an engineering company. The manufacturing technology coursework at Santa Ana College (SAC) is providing me with a roadmap to open my own machine shop."

The path to success has not been simple for Tran, but his goals have always been clear—go to college and get a good job. When he migrated from Vietnam in 1990, he spoke little English. He took high school English classes and got a job at McDonald's where he quickly mastered the language.

Now, a second semester student in the manufacturing technology certificate program, Tran is glad he chose SAC. "The faculty is very good; the machines are the latest technology; and the projects are practical," he said.

Currently taking eight classes, Tran is motivated to focus full-time on his business, CDT Engineering. To help grow his enterprise, already open in Placentia, he has also enrolled in business classes at SAC and it's all starting to come together. Recently, he bid on what may turn out to be the first job for his new company.

"I am confident that I am getting the knowledge I need to keep up with the industry. This is the most powerful program around," he said. **CF**

Students can earn associate degrees and vocational certificates in conventional machining, CNC programmer, CNC machine set up and operation, and CAD/CAM.

"We have active, hands-on training," says Dietrich Kanzler, chair of the SAC manufacturing technology program. "It's what sets us apart."

In addition to robust course offerings, students are required to spend a minimum of 32 hours in hands-on lab work each semester. Being up close and personal with the tools of the trade makes all the difference.

"It's convenient for me and the shop is set up well," says Drew Osterkamp, first-year student from Anaheim Hills. "You learn twice as quickly and the program is already opening doors for me. It's great!"

The Latest Technology Supports the Program

SAC's manufacturing technology program facility features conventional lathes, conventional mills, CNC lathes, CNC mills, plus a fully mediated classroom. Thanks to recent grants in excess of \$300,000, the college has purchased the latest CNC turning centers and a CNC horizontal machining center, as well as five new technology conventional mills.

With the guidance of the Manufacturing Technology Advisory Committee and industry leaders, the program is continuously updated ensuring that its graduates are poised to excel in the workplace.

"We offer all the best and latest to our students," says Kanzler. "All our instructors have real-world experience that they share on a daily basis."

Students Get What They Need to Succeed

The SAC manufacturing technology program has built a strong reputation for offering practical experience that leads to job opportunities. The associate degree and certificate program offers the following options: conventional machining, CNC programmer, CNC

machine set up and operation and CAD/CAM, as well as CNC mill or lathe specialist options.

Coursework choices include:

- Basic Blueprint Writing
- Technical Mathematics
- Basic Machining Concepts and Operations
- CNC Program Writing
- Geometric Dimensioning and Tolerancing
- Mastercam 2-D Geometry and 2-D Toolpaths
- Mastercam 3-D Geometry and 3-D Toolpaths
- CNC Milling Center Set Up and Operation
- CNC Turning Center Set Up and Operation
- CAM Applications
- Mastercam Lathe
- SolidWorks Basic/Intermediate/Advanced Solid Modeling

Advanced courses are available in all areas.

SAC Is Committed to Your Success

So, if you want to take the first step to a better future and believe that manufacturing technology is your answer, SAC will support your academic and personal success. In each class, your instructors stand ready to provide the skills, techniques, feedback, and experience that you'll need as you enter or enhance your career in this rapidly growing field.

Class scheduling is flexible and available six days a week, day and night. Details are available at www.sac.edu or by calling (714) 564-6800. **CF**

Feature

Power Up or Reboot With a Career in Computers

Santa Ana College Preparing Students for Technology Field

By Nikita Flynn

At Santa Ana College (SAC), students looking to explore this exciting field can choose from the computer science or computer information systems degree and certificate programs. Take a look at both and determine which is right for you.

Computer Science

Computer science (CS) deals with the science and technology of information processing. At SAC, courses are designed to meet the varying goals of students interested in employment or education in this field. Students

desiring to enter the workplace at entry-level positions may be drawn to the CS certificate, while those interested in transferring to a four-year institution with a CS major can opt for the AA degree. Courses provide instruction in low-level and high-level languages, intermediate and advanced techniques in programming, and hardware organization.

Degree courses include:

- The Computer and Society
- Fundamentals of Assembly Language
- Introduction to Computer Organization

- Programming Concepts
- Data Structures Concepts
- File System Concepts

Certificate courses include:

- Java Programming
- File System Concepts
- Programming Concepts
- Data Structure Concepts
- Advanced Visual BASIC

"The education and training offered at SAC is local, but there is a national push underway to promote and heighten awareness about the computer science field," said Hilda Roberts, dean, business division.

One such initiative is that of The National Science Foundation's "CISE Pathways to Revitalized Undergraduate Computing Education" (CPATH) program, an initiative that aims to transform undergraduate computing education on a national scale. The United

States is currently the world leader in computer science and engineering, but other nations are quickly catching up,

and enrollment in computer science programs has declined in recent years.

"We need to inspire the best and brightest to go into computing," Jeannette Wing, the assistant director at NSF for CISE, said. "There remains in computer science many deep, challenging problems to be solved by the next generation."

Looking for Other Options?

SAC students can also enroll in the computer information systems (CIS) program. A CIS major can prepare students for a variety of careers including database management, helpdesk/technical support, senior systems analyst, network engineer and systems architect.

Computer Information Systems

This area is offered for those who are interested in the application of computer hardware and software to business. The courses cover major programming languages, as well as software used in business for database management, spreadsheets, and networking.

Degree courses include:

- Visual BASIC Programming
- Intro to Computing Application Software
- The Computer and Society
- Windows XP Operating System
- MS Excel
- MS Access
- Intro to Networking Technology
- Windows 2000 Server

Certificate offerings are diverse and include Networking, UNIX, Web Page Designer and Web programming.

The Future of Computer Science

According to the 2006-07 Occupational Outlook Handbook produced by the U.S.

Hardware. Software. Bits and bytes. If you enjoy working with computers, then most likely you know these terms. But what you may not know is how intricately computers and the field of computer science are embedded in services, products, and systems. Whether it is designing the next gaming system, computer networking, programming, or software testing, the education and career options in this burgeoning industry are limitless.

Department of Labor, Bureau of Labor Statistics, "computer scientists and database administrators are expected to be among the fastest growing occupations through 2014. Employment of these computer specialists is expected to grow much faster than the average for all occupations as organizations continue to adopt and integrate increasingly sophisticated technologies. Job increases will be driven by very rapid growth in computer systems design and related services, which is projected to be one of the fastest growing industries in the U.S. economy."

"Careers for majors in this field continue to be promising and students can be assured that with the training they receive at the college, combined with the guidance and expertise of faculty and staff, they will be well-prepared for their post-graduation experience," said Roberts. **CF**



STUDENT PROFILE

Work Experience Program Opens Doors for Computer Science Student

By Nikita Flynn

Despite the complication of interning 40 hours a week and attending school full time, Santa Ana College (SAC) student Francisco Gonzalez's goals are quite simple. He enrolled in the computer science degree program because he loves computers.

"Computer technology is everywhere and it touches everything," he said. "From building Boeing airplanes to military planning to administration in a company, computers are sure to play a part."

Gonzalez, along with his peers, see that as the job market becomes more competitive, career seekers are challenged to give themselves an edge over their competition. In the rapidly

changing field of technology, the need is even more critical. He is using the skills he is acquiring at SAC to jumpstart his plans and to position himself for a solid future in the field.

By enrolling in the college's Computer Science Work Experience course (CS104) which offers students the opportunity to develop skills in a job setting, he is advancing his occupational and educational goals. Students work with an on-site supervisor and course instructor who guide them along the way. The course also helps students gain credit hours, as students may repeat the course for up to 16 units.

Gonzalez, who interns for Volt Information Sciences, Inc., says the work experience course is providing him with valuable experience. "This



program is beneficial because it gives me in-depth experience in what I would like to do before graduating and obtaining my degree."

He plans to transfer to Cal State Fullerton next fall to complete his bachelor's degree in software engineering, and highly recommends the computer science program at SAC.

"If you want a job in a field that is fun, exciting, and pays well, you should definitely look into computer science." **CF**

FACULTY PROFILE

Professor Cherylee Kushida Sets Trends for Teaching Computer Technology

By Nikita Flynn

Although she's too humble to admit it, Santa Ana College (SAC) computer science professor Cherylee Kushida could be considered an innovator. One of the first instructors to utilize online teaching in her division, Kushida realized the need for instructing students via the Web and took advantage early on as the trend emerged. The results continue to astound her as she currently teaches half of her courses online.

"Students can't get enough of online classes," said Kushida. "The sessions tend to be much more open

and there is greater interaction vs. in the traditional class setting."

Kushida's sensitivity to the need for learning new technology led her and other faculty members to encourage including computer proficiency as a requirement in associate degree programs eight years ago. Through the requirement, students gain knowledge of basic software programs including MS Access, Database, MS Word, MS Excel and PowerPoint. Kushida's passion for her work was recognized by the Community College Foundation when she was presented with a "Best Use of Technology" award in 1999 for her online class Web site.

Kushida began teaching at SAC after leaving IBM Corporation. Her work in the corporate sector left her with a lasting belief in the importance of computer technology.



"Computers and teaching have become more interconnected and never have educators seen this more so than now, as generations coming up are used to having one as a learning tool," Kushida said. "It's difficult now to talk about teaching without having to talk about the other."

Despite her progress, Kushida keeps her eyes and ears open for more opportunities for students. Recent innovations include the college's new help desk certificate that addresses the growing demand for help desk employees and the CS Work Experience program. "Nothing gives me greater joy than to work with students and to help them reach their educational goals." **CF**

Decoding the Generations

Age can say a lot about work style

With some people starting their first part-time job at age 16 and many others working well past traditional retirement age, the workplace can bring together four generations of Americans. Each generation brings their own set of values and priorities to the job, too. Take this quiz to see if you can identify each of the generations and their work style. **CF**



By Laura Lyjak

The Millennial Generation

- Born between
- Defining traits
- Biggest work style strength
- Potential work style shortcoming
- Attitude toward technology
- Famous members of this generation

Generation X

- Born between
- Defining traits
- Biggest work style strength
- Potential work style shortcoming
- Attitude toward technology
- Famous members of this generation

Baby Boomer Generation

- Born between
- Defining traits
- Biggest work style strength
- Potential work style shortcoming
- Attitude toward technology
- Famous members of this generation

The Silent Generation

- Born between
- Defining traits
- Biggest work style strength
- Potential work style shortcoming
- Attitude toward technology
- Famous members of this generation

Born between

- A.** 1982 – 2002
- B.** 1961 – 1981
- C.** 1943 – 1960
- D.** 1925 – 1942

Defining traits

- A.** Idealism and creativity
- B.** Skepticism and individualism
- C.** Civic purpose and upbeat attitudes
- D.** Sensitivity and a modest attitude

Biggest work style strength

- A.** Informal, self-reliant, risk-takers
- B.** Detail-oriented, logical
- C.** High-achieving, strong sense of mission
- D.** Collaborative and open-minded

Potential work style pitfall

- A.** Risk-averse, dislike conflict
- B.** Accustomed to schedule planned and organized by others
- C.** Workaholic, can be self-righteous
- D.** Slacker attitude

Attitude toward technology

- A.** I master the essentials and keep up-to-date
- B.** It's as important as air
- C.** I'm very tech savvy
- D.** I think it's over-rated, but I'm comfortable with the basics

Famous members of this generation

- A.** Venus and Serena Williams, Mark Zuckerberg, Scarlett Johansson, Justin Timberlake, Freddie Adu, Lindsay Lohan
- B.** Mick Jagger, Meryl Streep, Bill Gates, Bill Clinton, George W. Bush, Oprah Winfrey, Steven Spielberg
- C.** Barack Obama, Johnny Depp, Richard Linklater, Kurt Cobain, Eddie Vedder, Larry Page, Sergey Brin
- D.** John Lennon, Ray Charles, Jane Fonda, Jack Nicholson, John McCain, Woody Allen, Neil Armstrong

Millennials: A C D B B A
 Gen X: B B A D C C
 Baby Boomers: C A C C A B
 Silent Generation: D D B A D D



What Are You Waiting For?

A to Z

CareerFocus



Don't put it off another day, start your college education by calling Santa Ana College today at (714) 564-6005 or by visiting www.sac.edu. Choose a course of study and enroll this spring—within two years you could be on your way to a brand new career. If you aren't sure what career suits you, SAC's counselors will be glad to help you figure it out.

SAC offers a multitude of options in a wide range of fields. Choose from over 200 certificate and degree programs, as well as transfer agreements with four-year colleges in California. Check out SAC's A-Z program list and see what best fits your interests. Whether you're looking to begin your first career or ready for a change, we've got something for everyone.

SAC offers traditional day, evening classes, and weekend, as well as distance learning and hybrid classes—we fit into even the busiest schedule. SAC's counseling staff can help you with these decisions. Call them at (714) 564-6100.

Spring registration is now in progress. Classes begin February 11. **CF**

And don't forget about career advancement and personal enrichment through SAC's Community Services program. How about a class in dog obedience, candle making, or becoming a notary public? Effective supervision or time management? Salsa dancing or yoga? Community Services classes start at varying times and vary in length. For more information about our many reasonably priced options, call (714) 564-6594 or visit www.sac.edu/cms.

Santa Ana College A-Z What follows is an alphabetical listing of programs and areas of study offered by Santa Ana College. Call 714.564.6005 or visit SAC on the Web at www.sac.edu for more information.


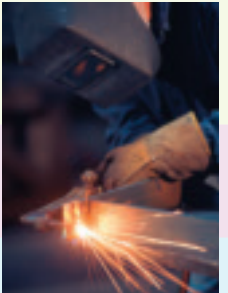
Area of Study	SAC Program	Prepares You For	Job Titles	Orange County Median Earnings*
Accounting	General Accounting (Certificate) Computerized Accounting (Certificate) Computerized Accounting QuickBooks Option (Certificate) Computerized Accounting MAS 90 (Certificate) Computerized Accounting ACCPAC Option (Certificate) Computerized Bookkeeping (Certificate) Computerized Bookkeeping QuickBooks Option (Certificate) Computerized Bookkeeping MAS 90 Option (Certificate) Computerized Bookkeeping ACCPAC Option (Certificate)	Entry-level positions and promotional opportunities in accounting and administrative departments of businesses in public and private sector, including manufacturing, merchandising, financial service, wholesale trades, and government. Entry-level employment opportunities include positions in accounts receivable/payable, payroll, income tax preparation, cost accounting, data processing and a number of trainee positions.	Accounts Receivable/ Payable Clerk, Payroll Clerk, Income Tax Preparer, Data Entry Processor, and Bookkeeper. Entry-Level Accountant.	Starting Salary (\$39,000) Median Salary (\$48,000)
	Accounting and Financial Planning (Certificate)	Staff support services for budget preparation and analysis, administrative and analytical work in the areas of credit and collections, mortgage banking and lending, and other areas where planning and analysis skills are necessary. Job opportunities are also available in the personal financial services area.	Financial Planner, Financial Assistant, Accounting Clerk, Accounting Assistant or Accountant.	Starting Salary (\$35,000) Median Salary (\$44,411)
Anthropology	Anthropology (Degree)	Prepares students for careers in archeology, linguistics and social science teachers; and transfer to four-year university.	Museum Curators	
Art	Crafts Jewelry Emphasis (Certificate)	Exhibiting and producing jewelry work for commercial applications.	Jewelry Designer and Jewelry Repair	Jewelers; Precious Stone and Metal Workers (\$36,050)
	Crafts Glass Emphasis (Certificate)	Exhibiting and producing glass work for commercial applications.	Production Glass Blower and Fine Art Glass Maker	Fine Artists (\$54,600)
	Graphic Design (Degree)	Entry-level employment in an advertising agency, design studios, freelance work and related businesses; and transfer to a four-year university.	Graphic Designer, Graphics Layout Design, Ad Designer, Publications Designer and Illustrator	Median Salary (\$38,230-\$48,983)
	3-D Animation (Certificate)	Entry-level position in film, broadcast television, video game companies, as well as product, industrial and architectural design.	Animator for 3D, Film and TV; Digital Effects Designer; Storyboard Artist; Video Game Designer; and Cartoonist.	
	Digital Media Arts, Graphic Design, Web Design, and Freelance; Digital Media Post-Production (Degree and Certificate)	Graphic, web, music, video and art design for print, web, TV/CD/DVD; and editing digital media.	Artist, Web Designer, Graphic Designer for Print and Digital Media, Freelance Business Owner and Audio Specialist for web.	
Automotive Technology	Automotive Technology (Degree)	Employment in automotive service and repair.	Automotive Service Technician, Automotive Mechanic, Smog Technician, Tune-up Technician, Front-End Mechanics, Brake Specialist and Transmission Specialist.	Automotive Mechanics (\$28,309-\$55,682)



Area of Study	SAC Program	Prepares You For	Job Titles	Orange County Median Earnings*	
Automotive Technology	Engine Service Option (Certificate)				
	Chassis Service Option (Certificate)				
	Engine Performance & Electrical Option (Certificate)				
	Advanced Engine Performance Option (Certificate)				
	Drive Train Service Option (Certificate)				
Biology	Biology (Degree)	Transfer to a four-year university and careers in biology, biomedical, technological and teacher education.	Biotechnologist, Epidemiologist, Forestry, Food Science and Teaching		
Business Applications	General Business Applications and Technology Option (Certificate)	Employment opportunities as an office clerk, clerk typist, computer operator, secretary and office assistant.	General Office Clerk, Clerk Typist, Receptionist, Computer Operator, Administrative Secretary, Secretary, Administrative Assistant or Administrative Professional.		
	Bilingual Option (Certificate)	Employment opportunities as a bilingual office clerk, clerk typist, word processor, secretary, office assistant and office aide.	Bilingual General Office Clerk, Clerk Typist and Receptionist.		
	Digital Publishing Option (Certificate)	Employment as a desktop publishing clerk, designer, web page designer and a variety of other printing jobs.	Desktop Publishing Operator and Clerk.		
	International Office Option (Certificate)	Employment as an office assistant, office clerk and receptionist in international trade and marketing.	Office Assistant, Office Clerk, Receptionist, Administrative Assistant, Administrative Secretary, Administrative Professional.		
	Legal Office Option (Certificate)	Gaining employment in a firm working with legal issues. Employment opportunities include office clerk, clerk typist, word processor, secretary, office assistant and office aide.	Legal Office Clerk, Paralegal and Legal Assistant		
	Microsoft Office Professional Option (Certificate)	Employment opportunities as an office clerk, clerk typist, word processor, secretary, office assistant and office assistant.	Office Assistant, Office Clerk, Clerk Typist, Receptionist, Administrative Assistant, Administrative Secretary, Administrative Professional, Word Processor and Clerical Support.		Starting Salary (\$25,000) Median Salary (\$28,000)
	Office Management Option (Certificate)	Employment as an office assistant, administrative clerk, administrative support, secretary and office administrator.	Administrative Professional, Office Administrator and Office Manager.		Starting Salary (\$30,000) Median Salary (\$35,000)
	Spanish/English Interpretation and Translation Option (Certificate)	Providing certified Spanish/English bilingual interpreter services in the legal, medical and general business.	Spanish/English Interpreter in a legal, medical or general business office.		
Business Management	Entrepreneurship (Certificate)	Opening and operating a small business.	Small Business Owner		
Chemistry	Chemistry (Degree)	Transfer to a four-year university and careers in science, technology and medicine.	Chemist, Pharmacist, Forensic and Material Scientist, and Clinical Lab Technology.		
Computer Information Systems	Computer Information (Certificate)	Employment as trainees in information systems, computer programming, networking and systems analysis.	Entry-level Computer Operator, Data Entry Clerk, Data Control Clerk, Computer Operator 1, Web Page Designer, Web Programmer, Unix Administrator, Entry-Level Programmer, Network Administrator, Database Administrator and Software Developer.	Starting Salary (\$29,000) Median Salary (\$35,000)	
	Database (Certificate)				
	Networking (Certificate)				
	Unix (Certificate)				
	Web Page Designer (Certificate)				
	Web Programming (Certificate)				
Computer Science	Computer Science (Certificate)	A career as an engineering aide, scientific computing technician or junior programmer.	Junior Programmer, Engineering Aide or Scientific Computing Technician.	Starting Salary (\$28,000) Median Salary (\$32,000)	
	Programming (Certificate)				
Criminal Justice	Corrections Officer (Certificate)	Entry-level positions in federal, state, local or private criminal justice agencies as law enforcement, correctional and probation officers.	Correctional Officer		
	Law Enforcement Option (Degree & Certificate)	Careers in law enforcement.	Law Enforcement Officer		
	Law Enforcement Custody Option (Certificate)	Careers in law enforcement.	Law Enforcement Officer		
	Law Enforcement Reserve Officer Option (Certificate)	Careers in law enforcement.	Law Enforcement Reserve Officer		
	Law Enforcement Advanced Officer Option (Certificate)	Careers in law enforcement.	Law Enforcement Officer		
Criminal Justice Academies	Peace Officer Standard and Training (POST) Basic Academy (Certificate)	Position as a sworn peace officer in the state of California. Training includes six month basic academy, which is approved by POST.	Sworn Law Enforcement Officer		
Dance	Dance, Musical Theatre and Dance Performance (Degree and Certificate)	Transfer to a four-year university; performance, choreography, movement therapy and dance theory; Auditions and performance in acting, voice and dance; and instructor and commercial dance performance.	Dancer, Choreographer, Movement Consultant, Dance Educator, Dance Critic, Studio Owner, Arts Administrator and Theatre, Film or TV Performer.		
Diesel & Heavy Equipment Technology	Mid-Range Engine Service Option (Degree & Certificate)	Employment with distributors, dealerships, transportation agencies, construction firms, governmental agencies, independent repair shops, fleet companies and specialized facilities.	Bus and Truck Mechanic, Diesel Engine Specialist, Transport and Refrigeration/Temperature Control Technician.		
	Diesel & Heavy Equipment Technology (Degree & Certificate)				
	Transport Refrigeration/Temperature Control Option (Certificate)				

Area of Study	SAC Program	Prepares You For	Job Titles	Orange County Median Earnings*
Earth Science/Geology	Earth Science/Geology (Degree)	Transfer to a four-year university and careers in geosciences, GPS and engineering.	Atmospheric and Conservation Scientist and Forestry.	Forester (\$72,620) Atmospheric and Space Scientists (\$98,990)
Economics	Economics (Degree)	Careers in accounting and marketing in areas of business, government and teaching; and transfer to a four-year university.	Bookkeeping, Accounting and Auditing Clerks.	
Emergency Medical Technician	Emergency Medical Technician	Entry level employment working with patients in ambulances and emergency rooms (required for paramedic)	Emergency Medical Technician (EMT)	Emergency Medical Technicians and Paramedics (\$30,000)
Engineering 	Engineering Civil Technology (Certificate)	Employment in a surveying office recording data, preparing subdivision maps, street and highway proposals, and grading maps.	Surveyor	Starting Salary (\$66,830) Median Salary (\$75,962)
	Engineering Computer Aided Drafting and Design (Certificate)	Employment in an engineering, architectural, civil engineering or a construction office as a computer-aided drafter/designer, or an engineering technician.	Computer Aided Design Drafter (CAD)	Starting Salary (\$38,000) Median Salary (\$44,000)
	Option I - Engineering Drafting and Design (Certificate)	Employment in an engineering, architectural, civil engineering or a construction office as a drafter, designer, or an engineering technician.	Mechanical Drafter I, Designer or Engineering Technician.	Starting Salary (\$32,000) Median Salary (\$40,000)
	Option II Architectural/Civil Engineering/Construction Drafting and Design (Certificate)	Employment as a professional drafter/designer in the Architectural/Civil Engineering and Construction fields (AEC).	Architecture Drafter I, Computer-Aided Designer/Drafter.	Starting Salary (\$36,000) Median Salary (\$46,000)
	Engineering Industrial Technology (Certificate)	Employment in private manufacturing industries in areas such as production planning, quality control, inspection and testing and production supervision.	Industrial Designer I	Starting Salary (\$46,000) Median Salary (\$51,000)
English	English (Degree)	Transfer to a four-year university.	Writer, Author, Media and Communications Worker or High School Teacher in English.	
Ethnic Studies	Degrees with emphasis in Asian, Black, Chicano or Ethnic Studies.	Enhances cross-cultural communication and prepares students for careers in intercultural relations in the arts, business, education and government; and transfer to four-year university.	Community and Social Services Specialist and Human Resources Specialist.	
Fashion 	Apparel Production Technician Option (Degree & Certificate)	Positions as fabric and apparel patternmakers, tailors, dressmakers and custom sewers. Positions with apparel manufacturers in fabric/supply selection/ordering/logistics and apparel design room prototype production, and manufacturing production control. Positions in theatre costume shops in production of custom character costumes.	Manufacturer and in theatre costume shops, Design Room Supervisors, Sketchers/Specs, First Pattern Patternmakers, Sample Makers, Markers and Pattern Graders, Quality Controllers, Production Manager, Piece Goods/Fabric Trim Buyer, Merchandiser and Costing Engineer.	
	Dressmaking and Alterations Option (Certificate)	Positions in dressmaking, tailoring and alterations in retail stores or private businesses.	Custom Dressmaker, Tailor.	
	Fashion Merchandising (Degree & Certificate)	Positions with apparel retail stores in management training and assistant management, buying, promotion, and personal shoppers. Positions with fabric/trim manufacturers and apparel manufacturers as merchandisers, showroom/sales representatives and account managers. Positions in media costuming as a stylist, merchandisers and personal shopping.	Apparel Retail, Management Trainee, Assistant Department Manager, Assistant Store Manager, Assistant Buyer, Personal Shoppers/Stylist, Visual Merchandisers, Promotion Coordinator, Sales Representative, Showroom Representative, Account Managers, Manufacturer Merchandisers.	
	Fashion Design and Custom Clothing (Degree & Certificate)	Entry-level positions in apparel design for custom clients, theatre costuming and manufacturing. Entry-level positions with apparel manufacturers to design 5-7 RTW seasonal lines per year for their target customer/brand niche. Positions in theatre to design for a script, the costumes, per character, per set scene, or for a custom fit performer.	Apparel Manufacturer Assistant, Designer, Product Developer, Merchandise Designer, Costumer Assistant Designer/Cutter, Tailoring.	Fashion Designer (\$57,678)
Fire Technology	Public Fire Service Option (Degree & Certificate)	Positions with federal, state, local and private fire protection agencies for those desiring to enter fire service work in such areas as firefighting with emphasis in fire prevention, inspection and safety practices.	Firefighter	
	Administration Fire Services Chief Officer (Degree & Certificate)	Careers as chief officers as required by the CA Fire Chiefs' Association and the Chief Officer Certification track of the California State Fire Marshall.	Chief Officer	
	Fire Administration Option (Degree & Certificate)	Careers as fire service officers as required by the CA State Board of Fire Services Certified Fire Officer.	Fire Service Officer	
Geography	Geography (Degree)	Prepares students for transfer to a four-year university; and careers in government agencies, including Bureau of Census, C.I.A., D.E.A., State Department, land use analysis, transportation, travel and tourism.	Market Research Analysts, Surveying and Mapping Technicians and Geographer.	
History	History (Degree)	Prepares students for transfer to a four-year university and careers with government agencies, libraries or museums, research programs, international organizations, etc.	High School History Teacher	
Human Development 	Preschool Child Option (Degree & Certificate)	Positions as preschool/school readiness teacher, teacher/supervisor after-school programs, parent educator, child development center director, site supervisor of ECE programs, assistant/associate preschool/school readiness teacher, recreation leader, family day care provider and mentor teacher.	Preschool Teacher, Parent Educator, CDC Director, Site Supervisor, Assistant Preschool Teacher, Recreation Leader, Family Daycare Provider and Mentor Teacher.	Preschool Teachers Starting Salary (\$21,653) Median Salary (\$25,334)
	Infant-Toddler Option (Degree & Certificate)	Positions as infant/toddler teacher, parent educator, child development center director, site supervisor of ECE programs, assistant/associate infant toddler teacher, family day care provider and mentor teacher.	Infant/Toddler Teacher, Assistant/Associate Teacher, Infant/Toddler Program Director, Site Supervisor, Family Day Care Provider, Mentor Teacher.	Preschool Administrators Starting Salary (\$38,355-\$47,070) Median Salary (\$42,827)
	School Age Option (Degree & Certificate)	Positions as paraprofessional members of the elementary teaching team, recreation leader and teacher, supervisor, and director of school-age child care programs.	Instructional Aide, Recreational Leader, After School Teacher/Leader, Site Supervisor, Director.	

Area of Study	SAC Program	Prepares You For	Job Titles	Orange County Median Earnings*
International Business	International Business (Certificate)	Employment in international business. Also provides preparation for taking the North American Small Business Trade Educators (NASBTE) Certified Global Business Credential Exam.	Entry-level employment in an international business firm.	
Journalism	Print Journalism, Broadcast Journalism (Degree and Certificate)	Transfer to a four-year university program and careers in reporting, public relations, radio and TV writing and production.	Journalist, Reporter, News Photographer, Newspaper Layout Designer, Writer, Publicist, TV Reporter and Editor.	
Liberal Arts	Liberal Arts (Degree)	Provides a basic framework for lifelong learning and transfer to a four-year university.	School Counselors	
Library Technology	Library Technology (Certificate and Degree)	To prepare student for a career as a skilled library paraprofessional (above the beginning clerical level.) Various levels of employment are available in school, public, academic, special, government libraries and information centers. Program also offers additional training and certification to library paraprofessionals already employed in the field.	Library Technician, Library Assistant, Library Media Assistant, Library Media Technician and Library Technical Assistant.	
Management	General Management (Certificate)	Employment in various management positions in business, government and public organizations.	Office Manager, Office Administrator, Management Trainee.	
	Small Business (Certificate)	A career in small business.	Small Business Owner/Operator	
	Supervision (Certificate)	Employment in the area of supervision.	Supervisor	Starting Salary (\$31,000) Median Salary (\$40,000)
	Human Resource Management (Certificate)	Employment in the area of human resources.	Human Resource Assistant I	Starting Salary (\$29,000) Median Salary (\$34,000)
	Retail Management (Certificate)	A career in retail management. Satisfies the agreement between the Western Association of Food Chains, Santa Ana College and Santiago Canyon College.	Retail Manager	Retail Managers (\$28,953-\$46,280)
Manufacturing Technology	CNC Programmer, Mastercam (Degree & Certificate)	Positions in industrial and metalworking machinery and equipment manufacturing as computer numeric controlled (CNC) and conventional machine tool operators.	CNC Machine Programmer	
	CNC Machine Set Up & Operation (Degree & Certificate)		CNC Machine Operator	CNC Machine Operators Starting Salary (\$24,440-\$41,912) Median Salary (\$32,198)
	CNC Lathe Set Up and Operation (Degree & Certificate)		CNC Lather Operator and Lathe Machinist.	
	CNC Milling Machine Set Up & Operation (Degree & Certificate)		CNC Mill Operator and Machinist.	
	CAD/CAM Option (Degree & Certificate)		CAD/CAM Specialist, Programmer and Design Engineer.	
	Conventional Machining (Degree & Certificate)		Machinist, Tool and Die Maker and Mold Maker.	
Marketing	General Marketing (Certificate) Advertising (Certificate) Professional Selling (Certificate)		Various marketing, sales and retail store management positions.	Entry-level Sales Analyst and Advertising Assistant.
Mathematics	Mathematics (Degree)	Transfer to a four-university and careers in accounting, business, teaching, engineering and science.	All careers that require math as a foundation, including Actuary, Accountant, Mathematician and Economist.	
Medical Assistant	Medical Assistant (Certificate)	Entry-level employment in a doctor's front and back office, medical insurance and hospital clerk.	Medical Assistant (MA)	Medical Assistant (\$32,200)
Modern Languages	Degrees in French and Spanish	Provides basic conversational ability and transfer to four-year university.	Interpreters and Translators.	
Music	Music (Degree), Digital Music Production and Music-Digital Media Post-Production (Certificate)	Transfer to a four-year university as a music major; teaching, performance, composition, arranging and orchestration; audio technician, audio specialist for web design, retail specialist, audio specialist, music producer/composer for film, TV/Video, or computer games.	Educator, Arranger, Performer, Composer, Audio Technician, Audio Specialist, Music Producer, Concert Publicist and Arts Administrator.	
Nutrition & Foods	Nutrition & Dietetics (Degree)	Positions in hospitals, schools, hotels and restaurants, and convalescent homes.	Manager for foodservice and catering, Dietary Aide and Occupational Therapy Assistant.	
Occupational Therapy Assistant	Occupational Therapy Assistant (Degree)	Positions in a variety of settings, including hospitals, outpatient centers, psychiatric facilities, hand clinics, skilled nursing facilities, school districts and private pediatric clinics.	Occupational Therapy Assistant	
Paralegal	Paralegal (Certificate)	Work in a paraprofessional capacity as an assistant to an attorney in a law firm, governmental agency or corporation.	Paralegal I, Legal Clerk and Legal Assistant.	Starting Salary (\$39,000) Median Salary (\$46,000)
Pharmacy Technology	Pharmacy Technology (Degree)	Employment in the full spectrum of pharmacy settings assisting licensed pharmacists in providing medication and other health-care products to patients.	Pharmacy Technician	
	Pharmacy Technology Basic Option (Certificate)	Positions in outpatient/retail pharmacies, including pharmacies specializing in long-term care and non-sterile compounding.		
	Pharmacy Technology Advanced Option (Certificate)	In addition to outpatient/retail pharmacy employment, positions in hospitals, home infusion pharmacies, and sterile compounding facilities.		
Philosophy	Philosophy (Degree)	Transfer to a four-year university and careers in teaching, theology, law and specialized historical studies.		
Physics	Physics (Degree)	Prepares students for transfer to a four-year university and careers in engineering and the sciences.	Astronomer, Engineer and Physicist.	

Area of Study	SAC Program	Prepares You For	Job Titles	Orange County Median Earnings*	
Political Science	Political Science (Degree)	Transfer to a four-year university and careers in law, teaching and government service.	Paralegal and Legal Assistant.		
Psychology	Psychology (Degree)	Transfer to a four-year university and career opportunities in child, clinical, personal, vocational and marriage counseling.	Clinical Psychologist, Counseling, Therapists and Social Worker.		
Registered Nurse	Registered Nursing (Degree)	Employment in hospitals and community-based hospice, urgent care and outpatient centers.	Registered Nurse (RN)		
Social Sciences	Social Sciences (Degree)	Provides study of human behavior, past and present, and the social and environmental forces that operate in the world; transfer to a four-year university; and social science teaching opportunities.	Social Scientist and Social Science Research Assistant.		
Sociology	Sociology (Degree)	Provides students with an interdisciplinary social science understanding of interpersonal behavior and social structure; transfer to a four-year university; and possible careers in social welfare, criminal justice.	Social Worker		
Speech Communication	Speech Communication (Degree)	Transfer to a four-year institution leading to a bachelor's degree; and careers in business, industry, government, education and public speaking.	Educator, Speech Consultant and Coach, Cultural Diversity Trainer, Writer, Human Resources, Organization Consultant and Mediator.		
Television Video Communications	Television /Video (Degree); TV/Video Production, TV/Video Broadcast Journalism, and TV/Video Scriptwriter; TV/Video Computer Graphics and Animation; TV/Video Media Studies, TV/Video Digital Media Post-Production (Certificate)	Studio and field production, editing, broadcast journalism, scriptwriting, computer graphics and animation; entry-level in broadcasting, cable TV, corporate video and advertising; news programming, documentaries, producing and staffing weekly news shows.	TV Producer, Editor, On-Air Reporter, Writer, Camera Operator, Animator, Video Producer, Director and Sound Technician.		
Theatre Arts	Theatre Arts Performance, Technical Theatre Emphasis (Degree) and Entertainment Lighting Technology (Certificate)	Transfer to a four-year university; and entry level work in theatre design, technical theatre, professional performance and stage management. Specialty in lighting for the entertainment industry, including automated lighting specialist, lighting technician, programmer and lighting designer. Careers in theme parks, sports arenas and the entertainment industry.	Actor, Producer, Director, Educator, Production Designer, Set Builder, Stage Manager, Lighting Designer and Programmer, Costume Designer and Playwright.		
Welding Technology	Welding Technology (Degree & Certificate)	Positions with industrial machinery and equipment companies; plumbing, heating, air conditioning contractors; construction companies; fabricated metal products and transportation equipment manufacturers.	Welder		
Women's Studies	Women's Studies (Degree)	Transfer to a four-year university and assists in understanding social, political, economic and cultural factors that affect women.	Social Worker, Women's Center Specialist		

*Job titles and salary information from the Employment Development Department, Labor Market Information Division, www.labormarketinfo.edd.ca.gov

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