

Santa Ana College

Fall 2007 • Volume 1 Issue 1

# CareerFocus™

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In-Demand Careers  
Offer Opportunity**

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College  
A Field  
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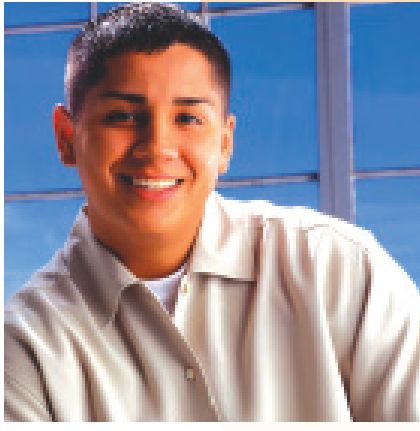
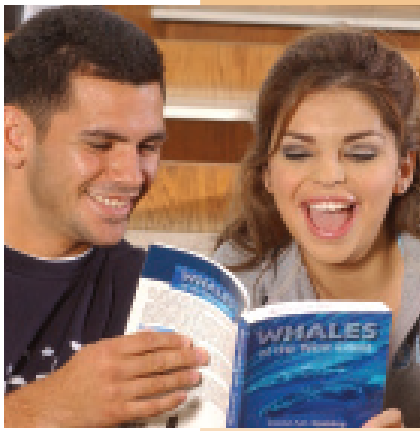
CareerFocus

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Santa Ana College alumna, Vanessa Ibarra  
Fashion Design and Custom Clothing Program



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# SAC

# CareerFocus™

Questions about Santa Ana College's programs and services described in this publication should be directed to the Office of Admissions at (714) 564-6005 or check out the college's website at [www.sac.edu](http://www.sac.edu). Comments or questions about the publication itself can be directed to SAC Public Information at (714) 564-6475.

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**Visit SAC on the Web at [www.sac.edu](http://www.sac.edu).**

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**On the cover:**

Santa Ana College alumna Vanessa Ibarra completed the Fashion Design and Custom Clothing Program, which prepares students for careers in the fashion design industry.

# Your Community College:



## Some things you probably didn't know and a few more worth repeating

By Laura Lyjak and Dalilah Davaloz

**O**f course you already know all about Santa Ana College. It's where your brother took a class, your neighbor earned a degree and your cousin with the Ph.D. started her college education. That's the great thing about SAC – we're adaptable and accessible to all kinds of different people at different stages in their lives.

But there's more you probably don't know. Sure, SAC has been around for over 90 years now, but like you, we've been changing. Yes, our faculty and staff still put students first, but we're also keeping up with the times with some great new programs in technology, skilled trades and health services. And our updated facilities – from the new Orange County Sheriff's Regional Training Academy and the Digital Media Center to the new Exercise Science Locker Room Complex – they are state-of-the-art.

### Flexible is our middle name (well, figuratively anyway!)

- Do you know that almost 80 percent of SAC students are part-time? This proves that even if you have a job, kids and a life, you still can get an education.
- SAC offers hundreds of evening classes every fall and spring

semester in everything from accounting to theatre arts.

- SAC offers many mini-semester classes, which compress the traditional 16-week semester into only eight weeks. When your life is busy, it can make sense to take classes in a shorter period of time.
- Can't make the drive to campus? More and more students find

## A Field Guide to SAC



distance learning the way to get their degree.

- SAC certificates make job skills the first priority. Most certificates require about 12 to 38 units, depending on the program.

### When you have questions, we have answers

- Have you seen our website lately? Not only can you apply for admission, register for classes, view the course schedule and pay your fees, but you can also research your term paper online. Isn't technology awesome? Visit us at [www.sac.edu](http://www.sac.edu).
- The Admissions staff is a bunch of know-it-alls. And that's a good thing. When your questions need an immediate answer, you can pick up the phone or come to campus. They can help you register, answer your questions or direct you to the right resources. Call (714) 564-6005, or visit their office on the main campus in Santa Ana.

- When your questions are too complicated for a quick answer, SAC's counseling staff is available to help you sort out the details. Whether you need help choosing classes or a career, whether it's a family, personal, or financial issue standing between you and your education, SAC's counseling staff can help you find solutions.

### We can help with the hurdles (after all, community really is our middle name)

- Your children are precious. That's why we have excellent child care facilities for our students. So while you're in class, your little one can be nearby safe and happy. Call the Child Development Center at (714) 564-6894 for more information.
- Need \$\$\$\$? Financial aid is available. Last year, SAC awarded nearly \$6 million and assisted over 10,000 students with financial aid services.



- No high school diploma? Never fear. Don't let your past stand in the way of your future. SAC's School of Continuing Education can help you prepare for the GED and get you on the way to college classes too.

**The real deal**

- Earn units that count. SAC has articulation agreements at all University of California and California State University institutions and many private colleges in the state. That means that if you follow the requirements for transfer, the classes you take at SAC will transfer there.
- Students who meet certain requirements are inducted into PTK, which stands for Phi Theta Kappa, the national student honor society for two-year colleges. Members have achieved a 3.5 grade point average or above and participated in worthwhile community activities.



- At SAC, everybody knows your name – most classes have small, intimate settings, so professors have time to get to know everyone and students get personalized attention.
- In the last five years, SAC has added dozens of new programs and updated others. A few new programs include the online degree program, 3D animation and digital music production.

**Oh, did we mention our low tuition?**

- You can't beat \$20 per unit, that's about \$240 for full-time status (approximately 12 units a semester)! For the record, you'll pay about \$4,694 to \$7,347 a year for in-state tuition for a public university in California. That doesn't even include living expenses like room and board. **CF**

**“Yes” to college; “Umm, not yet” to college savings**

Most parents have a good idea how much college will cost for their kids and they expect to help foot the bill. That's the good news reported by a March 2006 Harris Interactive poll. The bad news is that many of them aren't actively saving enough to cover college expenses.

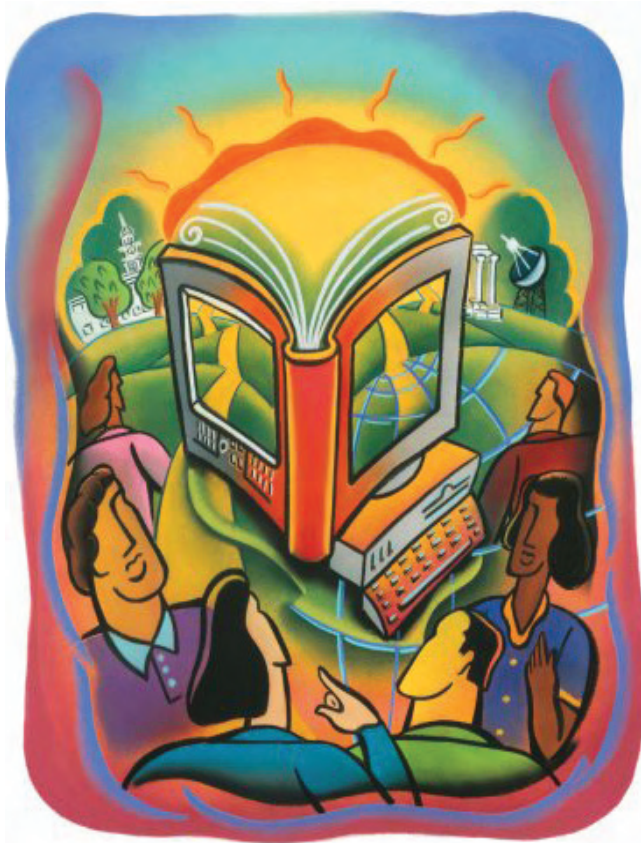
- Ninety-seven percent of parents expect their children will attend college and 79 percent plan to pay for some or all of the expenses.

- Twenty-six percent of parents have saved less than \$5,000 for their child's college education and 32 percent have saved nothing.
- Sixty-nine percent of these parents think their child will probably receive scholarships or financial aid to help with the cost of college.

- Seventy-five percent of parents with children age 2-13 have some college savings as do 67 percent with children age 14-18, but only 46 percent with children under age two have begun to save for college.



**Facts AND Finds**



**Community colleges cost less**

Tuition costs for students at community colleges are about a fourth as much as at public universities and a mere fraction of the cost of private universities.

According to [www.collegefinancialaidguide.com](http://www.collegefinancialaidguide.com), the average college tuition for public universities is \$5,090 per year for in-state residents. The average college tuition at private colleges and universities is about \$33,000 per year.

Compare that to the average full-time enrollment fees for a community college in California, which are only \$900 per year. Toss in another \$1,224 (average cost) for books and supplies and roughly \$738 for transportation. That brings the total enrollment-related expenses to \$2,862 per year. Why go anywhere else?

student loans is up, as is the amount of money they're borrowing.

- Today nearly two-thirds of students at four-year colleges and universities have student loan debt. In 1993, less than one-half of four-year graduates had student loan debt.
- Over the past decade, debt levels for graduates with student loans increased from \$9,250 to \$19,200. That's a 58 percent rise after accounting for inflation.
- Half of students who received federal student loans owe more than \$15,000.
- The percentage of students reporting that they would have borrowed less if they had to do it again increased from 31 percent in 1991, to 45 percent in 1997, to 54 percent in 2002. **CF**

**I guess we'll just get a student loan**

With the rising cost of college, it's probably no surprise that more students are borrowing to pay for their education. According to The Project on Student Debt, a non-profit advocacy group, the number of students turning to federal

# Be a Fashion Artist:



## Design Future Trends

By Dalilah Davaloz

**D**o you have an eye for style? Are you always on the cutting edge of fashion? Do you have the burning desire to turn your love affair with fashion into a lucrative profession? A career in fashion may be the right choice, and Santa Ana College (SAC) has the right program for you!

In this highly competitive industry, formal training is recommended to ensure you stand out from all the rest. According to the Employment Development Department of California (EDD), the projected growth for the fashion design industry through 2008 is 36.4 percent.

The good news is that you can learn the skills to enter this exciting industry in your own backyard. SAC offers a two-year program to obtain an associate degree. It will provide you with the skills and knowledge needed to jump into the fashion industry or it can prepare you for transfer to a four-year institution or a fashion institute.

"I received hands-on experience at SAC, which helped me develop my talent and launch my career," said Valerie T. Bart, an alumna from SAC. Valerie freelances as a costume designer for theatre productions, including South Coast Repertory Theatre. She obtained her associate degree in fashion design and merchandising and transferred to the University of California, Los Angeles.

"The industry is about selling a concept, a design you truly believe in," said Valerie.

SAC's fashion program combines creativity and technical skills in an innovative program that offers students three possible majors—fashion design and custom clothing, apparel production and fashion merchandising. Each program is designed to teach students fundamental skills to launch their careers in the fashion industry.

"Instructors within the program possess extensive education and industry experience," said Karen Conrad-Warner, department chair of family and consumer studies. "We are gratified knowing our students succeed in the industry."

The fashion department also hosts a fashion show every other year that is open to students and alumni. Students develop and produce the show from beginning to end, including designing runway staging, lighting, photography, seating and fashion coordination. Faculty is on hand to assist and advise where needed, but students hold ultimate creative control for the entire show. Students submit designs, and judges are chosen from faculty and the fashion industry to select winners for various categories. Beyond the smoke, mirrors and lighting of the runway, you'll find the inspiration and dreams of fashion students.

Artistic talent is crucial in the fashion industry. Individuals need a good sense of line, color, form, a sense of balance and proportion, and an eye for detail. The industry is heavily influenced by many factors, including seasons, trends, cultures and fabrics. The evolving curriculum for this program is poised to respond strategically to those changes, keeping the program parallel with the industry and supply and demand.

"A garment is a form of art and describes your personality, and your patterns are the tool that brings your artistic designs to life," said Valentino Sanchez, second year fashion design student. "My instructors have been very critical of my designs, but it has helped me grow and produce quality, unique designs. Next year, I plan on transferring to California State University, Long Beach to pursue my bachelor's degree in apparel design."

According to the EDD, industry leaders feel that community colleges provide better preparation than four-year institutions because they are closely allied with the garment industry. "Students prosper from the personal attention, hands-on education and the intimate class sizes," said Ms. Conrad-Warner.

Course offerings for the program include buying and merchandising, promotion and coordination, fashion selection, textile fibers and fabrics, sewing, pattern

design, fashion sketching, apparel line production, computer fashion illustration, display merchandising, manufacturing and grading, quality analysis, fashion portfolio development, and much more.

Individuals with a degree in fashion, obtain careers as: fashion designers and assistants, theatre costuming designers, design room assistants, retail store managers, quality control technicians, production managers, fashion buyers and apparel patternmakers. The average annual wage for fashion designers is \$57,678, depending on size of the firm and fashion industry niche.

Graduates from the program have moved forward in their careers with lucrative designers, department stores, the entertainment industry and as boutique owners, including: Bugle Boy, Inc.; Hurley International, Inc.; Fang Fashion; Jones of New York; Macy's, Inc. Oakley, Inc.; Nordstrom, Inc.; No Fear Clothing; Universal Studios; Disneyland; Kiki Originals Bridal Studio; St. John Knits; and more.

"When you graduate from one of our fashion programs, you'll be a well-trained professional with the skills to design and influence the fashion industry," said Ms. Conrad-Warner.

For more information on the fashion program, contact the fashion department at (714) 564-6800 or visit [www.sac.edu](http://www.sac.edu). **CF**

# Designed to Succeed



## Vanessa Ibarra – Fashion Design

By Dalilah Davaloz

Glitter and glam. That's what fashion is to a lot of aspiring fashionistas, but for Vanessa Ibarra, it's a dream come true.

"I have always had an interest in fashion design, but I never thought I would one day become a designer," says Vanessa Ibarra, 25. She emigrated from Mexico City when she was nine and quickly learned English and went on to graduate from Santa Ana High School.

She went straight to Santa Ana College (SAC) and began tackling general education courses for an associate degree. After completing those requirements, she wondered about her career choices and remembered her roots. In Mexico City, her family operated a clothing manufacturing company that produces clothing for Gloria Vanderbilt. How could she jump into the trade?

A friend told her about SAC's fashion design program, and she knew that was her direction. The program offered majors in fashion design and custom clothing, apparel production or fashion merchandising. With a desire and an interest in the fashion industry, now, all she needed were the skills and guidance of a solid program to continue the family tradition.

The program was challenging, and she wasn't sure if she would succeed. But she worked diligently and mastered every process, including pattern design.

Vanessa worked full time and attended college part time, so the 37-unit program took her a little over two years to complete. She credits her success to the instructors at SAC. "They have in-depth fashion design experience and helped to instill a sense of confidence."

Vanessa is finishing up an internship with Haley-K, a contemporary design company under Fang Fashion, which is sold at Bloomingdales. "My experience has been amazing," continued Vanessa. "Everything I learned in the classroom, I'm now applying in the fashion industry. SAC prepared me to tackle the fashion industry and succeed!"

She won first place awards for her designs at the 2006 Santa Ana College Fashion Show, a competition among fashion design students, and at the 2006 California Fashion Symposium, a statewide competition for college and university fashion design students. In June 2007, Vanessa graduated with her associate degree in fashion design and custom clothing. Her ultimate goal is to create her own designs under her exclusive label, **Ibarra. CF**

## Top Occupations in Orange County

By Judy Iannaccone

**A** June 2007 report produced by CCbenefits, Inc., with data by Economic Modeling Specialists, Inc., listed the projected fastest growing occupations in Orange County through 2014, as well as the highest paying occupations in the county.

According to the report produced for Rancho Santiago Community College District, careers with the highest-growth potential in Orange County through 2014 include those in sales and related fields, office and administrative support, management occupations, food preparation and serving, business and financial operations, construction, healthcare, building and grounds maintenance, and computer and mathematical science occupations.

"Orange County continues to grow in service-based industries and occupations that support them," said Edward Hernandez, Jr., Ed.D., chancellor, Rancho Santiago Community College District. "For people seeking careers with higher growth potential and good earning power, post-secondary education is increasingly important. Community colleges provide opportunities for higher education and workforce training that is flexible, affordable, and convenient."

With the largest group of retirees preparing to leave the workplace in U.S. history, the majority of the jobs created in Orange County will be replacement positions, according to the CCbenefits report. In sales and related occupations alone – the fastest-growing career listed in the study – an estimated 131,613 jobs are expected to open up by 2014, with 80,055 of them replacement jobs and 51,558 newly created positions.

Office and administrative support personnel positions were listed in the study as the second fastest-growing job area in Orange County. According to the report, an estimated 128,572 of these jobs will be needed through 2014, with 88,514 listed as replacement jobs and 40,058 as newly created positions.

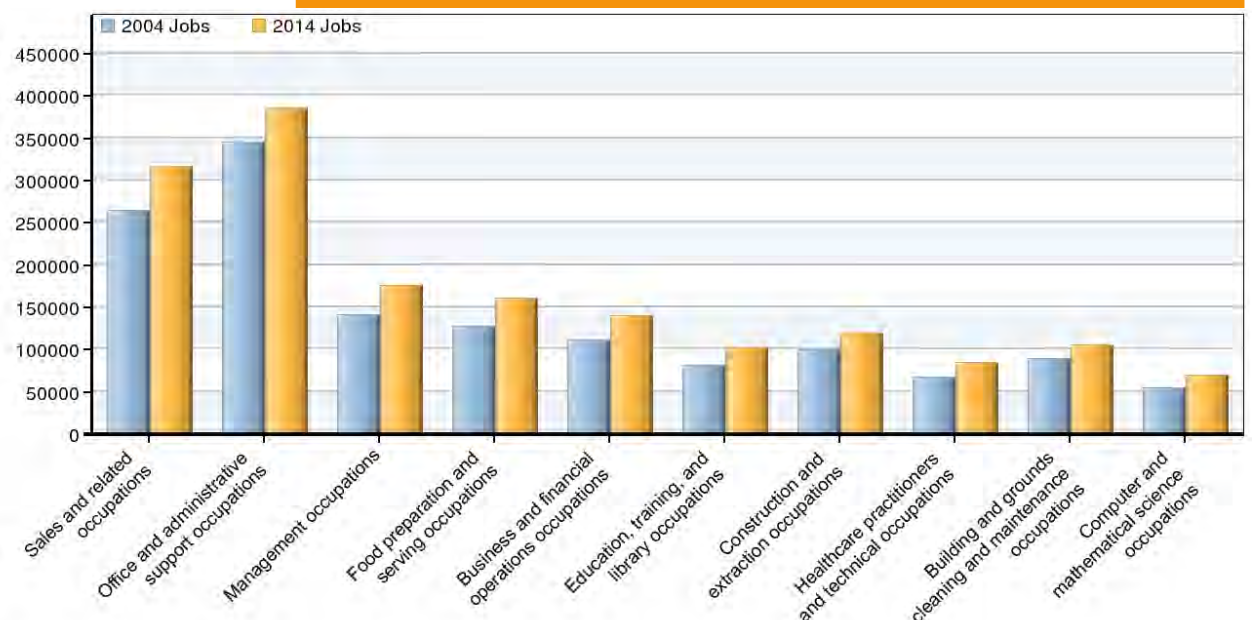
Careers listed as having the highest-projected earning potential in Orange County over the next seven years are those in the legal occupations; management occupations; healthcare; architecture

and engineering; computer and mathematical science occupations; life, physical and social science occupations; business and financial operations; and education, training and library occupations.

Legal careers were listed as having the highest potential earnings at \$42 per hour (approximately \$88,300 annually), with careers in management coming in second with projected earnings of \$39 per hour (\$81,916 annually). **CF**

# 2004-2014

### Fastest Growing Occupations in Orange County



Source: CCbenefits, 2007

# Preparing for a Career in Digital Graphic Design

**I**f you're always up on the latest technology, have an artist's eye and good teamwork skills, digital graphic design for print and the web may be the career for you. Combining a unique blend of artistic and technical skills, digital specialists create multi-dimensional designs for web sites, video games and other multimedia products.

By Judy Iannaccone

## Digital Graphic Designers Are In Demand

Career skills in demand include digital video, animation, audio, web design, graphic design, video, and interactive multimedia to name a few. Digital workers can find jobs in consulting, education, the arts, the media—new and traditional, marketing communications and training. Career opportunities can be found in all industries.

According to the state's Employment Development Department, information technology is one of the fastest growing industries in Orange County. Digital media technology is an increasingly large and vital component of that industry. These industries are expected to grow by 18 percent within Orange County from 2002-2012, representing 1,800 jobs. The following occupations expect significant growth:

- Graphic designer jobs will increase by 25 percent.
- Multimedia artist and animator jobs will increase by 30 percent.

In a June 2007 report, Economic Modeling Specialists, Inc., found that average hourly salaries in this field range from \$18.38 to \$23.47 in Orange County.

## Quality Instruction in the Heart of Orange County

Well known for its innovative educational programs, Santa Ana College (SAC) prepares students for high-demand careers in the digital media industry. Students can earn associate degrees and vocational certificates through programs in television production, broadcast journalism, television scriptwriting, graphic design, 3D animation/modeling, digital music production, and digital media art.

"I've had people ask me why I chose SAC's digital media arts program rather than go somewhere closer

to where I live," said Jennifer Cheng, designer, Studio C Multimedia.

"The answer is simple. I was fortunate enough to come across such a wonderful program with good classes and excellent faculty. With a combination like that, why go elsewhere?"

## High-Tech Facilities Match the Program

SAC's digital media arts program is housed in the Digital Media Center (DMC), a new 28,000 square-foot state-of-the-art facility, including a business incubator for emerging digital media businesses, classrooms equipped with remote desktop connection software and a 10,000 square-foot production facility that serves as the new home of the SAC TV/video department and SAC-TV.

Through the DMC, two new certificate programs are offered in digital media freelance and digital media post-production. The DMC also houses the college's Business Seminars with the Public Service Institute (PSI) offering short-term seminars for the business community.

## Students Learn to Excel in the Classroom

The SAC art department has built a strong reputation for producing award-winning students with excellent design capabilities through its digital media arts programs. With a project-oriented curriculum, instruction nurtures creativity. The associate degree program in Art-Digital Media Arts merges fine arts and technical knowledge required to develop skills necessary in two areas – graphic design for print and the web.

Completion of the associate degree prepares students to move into curriculum at a four-year institution leading to a baccalaureate degree



or into a professional art school with an emphasis in digital media. Completion of the associate degree also provides for entry into a profession in a variety

of areas: advertising agency, printing business, design studio, web production, freelance designer or related fields.

## Coursework for the associate degree program includes:

- Introduction to Art Concepts
- Two-Dimensional Design
- Fundamentals of Typography
- Graphic Design
- Graphic Design Concepts for the Web
- Introduction to Drawing
- Digital Design with Photoshop
- Digital Media: Portfolio & Business Strategies
- Digital Publishing with InDesign
- Digital Illustration with Illustrator
- Introduction to Digital Media Arts

## Providing Real-World Experience

One of the DMC's most exciting and unique features is its "DMC Designs" program, where students use what they have learned in the classroom in real-world situations with clients. This student-operated enterprise provides students training in project management, proposal writing, customer presentations, scheduling,

budgeting, concept development, design, development, and media production.

A team of students works with clients to develop communication tools such as web sites, presentations, brochures, and advertisements. Students benefit by adding examples of their work to their portfolios, while companies have access to brand identity development to help them sharpen their competitive edge.

## Student-Centered Instruction

Although there are many private institutions in California offering digital media studies, nowhere is the focus more on student success than at SAC. In each class, you will know how your success will be measured and evaluated. Your instructors take student satisfaction personally and make themselves available to ensure that your academic goals are being met.

"The digital media program has been enthusiastically endorsed by industry experts; the instructors are top-notch; and the students meet and complete rigorous requirements that prepare them for success in today's demanding design industries. In addition to beginning students, the program attracts beginning entrepreneurs, and professionals who want to refresh their skills," said Sylvia C. Turner, SAC associate dean, fine and performing arts.

Classes at the DMC are scheduled with students' needs in mind. Details are available at [www.sac.edu](http://www.sac.edu). To learn more about the Digital Media Center, visit [www.dmc-works.com](http://www.dmc-works.com). **CF**

# Single Mom Rides the Digital Wave to a Lucrative Career

By Judy Iannaccone

**A**fter a divorce, Karina Rindt worked a retail job at minimum wage which didn't cover the cost of living in Orange County. "It was horrible; I couldn't support myself and my daughter."

Previously, she had worked for a food distribution company where she discovered her love for the digital arts. Without a college education in her dream field, doors were closed to her, but she knew just where to go to get what she needed.

In 1999, she enrolled in her first class in Santa Ana College's (SAC) digital media arts program and loved it. But circumstances turned her attention elsewhere. So, when Karina returned to earn a college certificate at 45, she chose SAC.

"All the instructors are passionate about digital media and have worked in the industry," said Karina. "Dr. Brown has walked me through the whole process of launching a freelance business."

While still enrolled at SAC, Karina started her own company, Karina Designs. She's happy working as a freelancer. "Being able to work for myself offers the flexibility of working from home," she said. "I can earn a

good living, take classes and be a mom."

Through her involvement with the student-run business, DMC Designs, Karina made a lucky connection. Now, she is leading a team of students who are creating designs for folders, inserts, brochures, ads, and other collateral pieces for the new Santa Ana Business Bank and getting paid for it.

Karina received her certificate in digital media arts in December 2006 and landed her first freelance client one month later. A member of the Orange Chamber of Commerce, she continues her studies at SAC in web design. Her efforts are paying off. Not only is she earning a good living for herself and her family, she has also received public recognition. Her triptych was the only student-produced piece selected for SAC's Digital Media Center's inaugural art exhibit and her design just won the college's Psychological Services' logo contest.

"I love being able to create art and get paid for it," she said. "I feel so much better. I used to worry about finances all the time; now I don't. This program has made me so much more optimistic about my future. It's a miracle." **CF**



## Faculty Profile

### Dr. Sharon Brown, Digital Graphic Design Instructor, Named 4-Time Apple Distinguished Educator

Her fingers glide across the keyboard as if it were the finest concert grand piano instead of an Apple computer, her graphic design tool of choice. This passion and a keen ability to integrate technology into the curriculum has earned Dr. Sharon Brown, Santa Ana College (SAC) associate professor of digital media arts, a spot in the prestigious Apple Distinguished Educator program for the fourth time.

This honor is one stop along the way in a career devoted to technology and design. With a background in elementary and secondary art instruction, she transitioned into the corporate world where she was president of Interactive Video Corporation in Houston. She went on to manage an interactive media team for NCR and later for AT&T; she served as director of multimedia resources and as consultant for multimedia marketing.

Along the way, she remembered that she was happiest in the classroom and returned to teaching this time in community colleges. "Students push me more and more," she said. "What pumps me up is helping my students learn the technology so they can be more creative with their art and graphic design projects."

At SAC's Digital Media Center, she teaches art, graphic design and multimedia production for the Web. Some of the software applications her students learn to apply include Photoshop, Image Ready, Illustrator, In Design, Dreamweaver, and Flash.

For the past year, Dr. Brown has worked diligently to design and launch the new student-run enterprise, DMC Designs, part of the new freelance certificate program. The program is perfect for students who are ready to share their expertise (graphic design, music design, video shooting or editing) in a production team environment with real customers.

"It makes it all worthwhile to see my students progress with their designs, get real-world experience, build rewarding careers and make a better life for themselves and their families," said Dr. Brown. **CF**



# Which CAREER fits you?

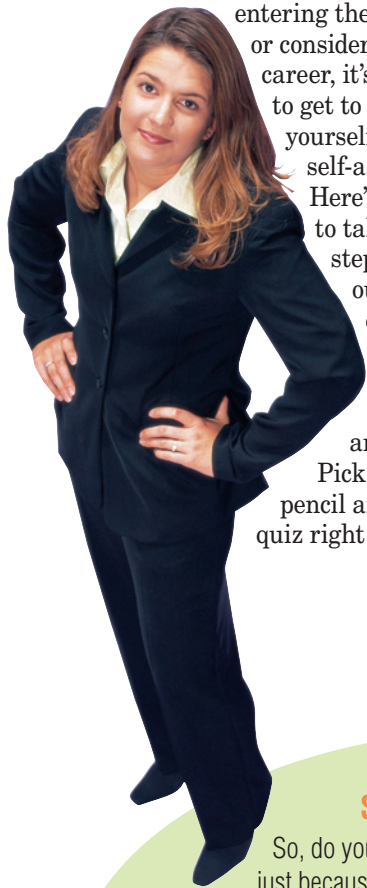
A simple self-assessment can help you start thinking about your options.

By Leslie Clark and Dailiah Davaloz

**D**o you sometimes feel unsure about where your career plans are headed? If so, don't panic, because you are not alone. Many of us feel this way about our current jobs or job planning and don't realize that there are ways to turn things around. In its annual Labor Day survey for 1999, the Gallup Poll indicated that over 50 percent of Americans are dissatisfied with their jobs. In another Gallup survey, two-thirds of a group of adults said if they were starting all over, they would try to get more information about their career options.

**The first step: Self-assessment**

Whether you're starting your first job, planning your career, re-entering the job market, or considering your next career, it's important to get to know yourself through self-assessment. Here's your chance to take the first step in finding out which occupations allow you to best use your strengths and talents. Pick up a pen or pencil and take the quiz right now.



**Something to think about**

So, do you need to run off and apply for medical school just because you scored high in the investigative section? Of course not. Quizzes like these are not designed to tell you exactly which job is right for you, but rather to get you thinking about your preferences. You should also look to see if you scored high in more than one section. There are many combinations and possibilities out there. This is only one of many career assessment tools available through bookstores, the Internet, and Santa Ana College. To truly get a full understanding of how to best plan the perfect career for you, make an appointment with the SAC Counseling Office by calling (714) 564-6100. **CF**

**Directions: Check off the items you think you would enjoy in each section. Mark as many items that apply.**

**"R" Section**

- Repair a car
- Do wood working
- Refinish furniture
- Explore a forest
- Arrest lawbreakers
- Plant a garden
- Build furniture
- Run a race
- Drive a truck

**"I" Section**

- Study causes of disease
- Do a science project
- Study human anatomy
- Study insects
- Research solutions to environmental problems
- Collect minerals and rocks
- Study the solar system
- Do math problems
- Talk to a scientist
- Study plants

**"A" Section**

- Sing before the public
- Design clothing
- Decorate a home or office
- Direct a play
- Write a story or play
- Design a poster
- Create a sculpture
- Arrange flowers
- Make videos
- Act in a performance

**"S" Section**

- Teach children
- Care for a sick person
- Teach a friend
- Interview clients
- Help a person overcome difficulties
- Be a hospital volunteer
- Help a charity
- Make people laugh
- Baby-sit

**"E" Section**

- Sell cars
- Make a speech
- Be the boss of other workers
- Start a club
- Save money
- Sell things
- Lead a meeting
- Take charge of a project
- Sell magazines door to door

**"C" Section**

- Keep detailed records
- Operate business machines
- Organize a work area
- Take telephone messages
- Attend to details
- Balance a budget
- Use a word processor
- Proofread a document
- Create a filing system

Now, go back to the sections. Add up how many boxes you checked in each section and fill in the totals for each in the space provided below.

**Totals:**

R \_\_\_\_\_

I \_\_\_\_\_

A \_\_\_\_\_

S \_\_\_\_\_

E \_\_\_\_\_

C \_\_\_\_\_

**What the letters mean**

Each of these letters represents a personal interest category. The columns in which you have the most check marks show where your interests are the strongest. Listed below are some jobs related to each interest type.

**R**ealistic Careers: Mechanic, fire fighter, police officer, forester, chef, carpenter, landscape architect, military, athletic trainer, engineer.

**I**nvestigative Careers: Biologist, psychologist, computer programmer, doctor, engineer, pharmacist, mathematician, dietician.

**A**rtistic Careers: Artist, musician, novelist, photographer, lawyer, interior designer, television announcer, actor, disc jockey, art teacher, reporter, architect.

**S**ocial Careers: Social worker, counselor, teacher, nurse, minister, school administrator, occupational therapist.

**E**nterprising Careers: Business owner, manager, sales person, travel agent, public relations, personnel director, Realtor®, florist.

**C**onventional Careers: Accountant, secretary, banker, bookkeeper, math teacher, treasurer, surgical technologist, dental assistant.

*Taken from The Career Interest Program Prentice-Hall, Inc. © 2001*



# A Matter Of Degrees

By Dalilah Davaloz

**Y**ou've got options. At SAC, you can get an education to fit your goals and your circumstances. With 136 certificate and degree programs, as well as transfer agreements with four-year colleges in California, chances are you'll find the right fit. Here are a few options to consider:

- SAC offers 87 different certificate programs in everything from accounting to welding technology. Ranging from 12 to 38 credits, these will get you ready for a new job within a year.
- Choose one of 49 associate degrees and begin your profession in two years.
- Investing two years in one of the many SAC transfer programs could save you at least \$6,000 on your four-year college degree.
- Need a career lift? A class or two might help. Eleven percent of SAC students already have four-year degrees. **CF**

## 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](http://www.sac.edu) for more information.

Area of Study	SAC Program	Prepares You For	Job Titles	Orange County Median Earnings*
Accounting	<b>General Accounting (Certificate)</b> <b>Computerized Accounting (Certificate)</b> <b>Computerized Accounting QuickBooks Option (Certificate)</b> <b>Computerized Accounting MAS 90 (Certificate)</b> <b>Computerized Accounting ACCPAC Option (Certificate)</b> <b>Computerized Bookkeeping (Certificate)</b> <b>Computerized Bookkeeping QuickBooks Option (Certificate)</b> <b>Computerized Bookkeeping MAS 90 Option (Certificate)</b> <b>Computerized Bookkeeping ACCPAC Option (Certificate)</b>	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)
	<b>Accounting and Financial Planning (Certificate)</b>	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	<b>Anthropology (Degree)</b>	Prepares students for careers in archeology, linguistics and social science teachers; and transfer to four-year university.	Museum curators.	
Art	<b>Crafts Jewelry Emphasis (Certificate)</b>	Exhibiting and producing jewelry work for commercial applications.	Jewelry designer and jewelry repair.	Jewelers, Precious Stone and Metal Workers (\$36,050)
	<b>Crafts Glass Emphasis (Certificate)</b>	Exhibiting and producing glass work for commercial applications.	Production glass blower and fine art glass maker.	Fine Artists (\$54,600)
	<b>Graphic Design (Degree)</b>	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)
	<b>3-D Animation (Certificate)</b>	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.	
	<b>Digital Media Arts, Graphic Design, Web Design, and Freelance; Digital Media Post-Production (Degree and Certificate)</b>	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	<b>Automotive Technology (Degree)</b> <b>Engine Service Option (Certificate)</b>	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 Service Technicians (\$40,497)



Area of Study	SAC Program	Prepares You For	Job Titles	Orange County Median Earnings*
<b>Automotive Technology cont'd</b>	Chassis Service Option (Certificate)			
	Engine Performance & Electrical Option (Certificate)			
	Advanced Engine Performance Option (Certificate)			
	Drive Train Service Option (Certificate)			
<b>Biology</b>	Biology (Degree)	Transfer to a four-year university and careers in biology, biomedical, technological and teacher education.	Biotechnologist, epidemiologist, forestry, food science and teaching.	
<b>Business Applications</b>	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 and administrative assistant.	
	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, clerk and secretary.	
	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.	
<b>Business Management</b>	Entrepreneurship (Certificate)	Opening and operating a small business.	Small business owner.	
<b>Chemistry</b>	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.	
<b>Computer Information Systems</b>	Computer Information (Certificate) Database (Certificate) Networking (Certificate) Unix (Certificate) Web Page Designer (Certificate) Web Programming (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.	
<b>Computer Science</b>	Computer Science (Certificate) Programming (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)
<b>Criminal Justice</b>	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.	
<b>Criminal Justice Academies</b>	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.	
<b>Dance</b>	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.	
<b>Diesel &amp; Heavy Equipment Technology</b>	Mid-Range Engine Service Option (Degree & Certificate)  Diesel & Heavy Equipment Technology (Degree & Certificate)  Transport Refrigeration/Temperature Control Option (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.	
<b>Earth Science/Geology</b>	Earth Science/Geology (Degree)	Transfer to a four-year university and careers in geosciences, GPS and engineering.	Atmospheric and conservation scientist and forestry.	Foresters (\$72,620), Atmospheric and Space Scientists (\$98,990)

Area of Study	SAC Program	Prepares You For	Job Titles	Orange County Median Earnings*
<b>Economics</b>	<b>Economics (Degree)</b>	Careers in accounting and marketing in areas of business, government and teaching; and transfer to a four-year university.	Bookkeeping, accounting and auditing clerks.	
<b>Emergency Medical Technician</b>	<b>Emergency Medical Technician (Certificate)</b>	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)
<b>Engineering</b> 	<b>Engineering Civil Technology (Certificate)</b>	Employment in a surveying office recording data, preparing subdivision maps, street and highway proposals, and grading maps.	Surveyor.	Median Salary (\$58,707)
	<b>Engineering Computer Aided Drafting and Design (Certificate)</b>	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)
	<b>Option I - Engineering Drafting and Design (Certificate)</b>	Employment in an engineering, architectural, civil engineering or a construction office as a drafter, designer, or an engineering technician.	Mechanical drafter 1, designer or engineering technician.	Starting Salary (\$32,000) Median Salary (\$40,000)
	<b>Option II Architectural/Civil Engineering/Construction Drafting and Design (Certificate)</b>	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)
	<b>Engineering Industrial Technology (Certificate)</b>	Employment in private manufacturing industries in areas such as production planning, quality control, inspection and testing and production supervision.	Industrial designer.	Starting Salary (\$46,000) Median Salary (\$51,000)
<b>English</b>	<b>English (Degree)</b>	Transfer to a four-year university.	Writer, author, media and communications worker or high school teacher in English.	
<b>Ethnic Studies</b>	<b>Degrees with emphasis in Asian, Black, Chicano or Ethnic Studies.</b>	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.	
<b>Fashion</b> 	<b>Apparel Production Technician Option (Degree &amp; Certificate)</b>	Positions as fabric and apparel pattern makers, tailors, dress makers and custom sewers.	Designer, dressmaker, tailor, sample maker, theatre costume designer, pattern cutter, quality control technician, production manager, fashion sales representatives, fabric & trim buyer, grader, first pattern maker, retail dept. manager, assistant buyer, design room manager and supervisor.	
	<b>Dressmaking and Alterations Option (Certificate)</b>	Positions in dressmaking, tailoring and alterations in retail stores or private businesses.		
	<b>Fashion Merchandising (Degree &amp; Certificate)</b>			
	<b>Fashion Design and Custom Clothing (Degree &amp; Certificate)</b>	Entry-level positions in apparel design for custom clients, theatre costuming and manufacturing.	Fashion designer, retail department manager, assistant buyer and supervisory.	Fashion Designers (\$57,678)
<b>Fire Technology</b>	<b>Public Fire Service Option (Degree &amp; Certificate)</b>	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.	
	<b>Administration Fire Services Chief Officer (Degree &amp; Certificate)</b>	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.	
	<b>Fire Administration Option (Degree &amp; Certificate)</b>	Careers as fire service officers as required by the CA State Board of Fire Services Certified Fire Officer.	Fire Service Officer.	
<b>Geography</b>	<b>Geography (Degree)</b>	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 researcher analysts, surveying and mapping technicians and geographer.	
<b>History</b>	<b>History (Degree)</b>	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.	
<b>Human Development</b> 	<b>Preschool Child Option (Degree &amp; Certificate)</b>	Positions as preschool/school readiness teacher, teacher/supervisor after-school programs, parent educator, child development center director, site supervisor of Early Childhood Education programs, assistant/associate preschool/school readiness teacher, recreation leader, family day care provider and mentor teacher.	Preschool teacher, parent educator, child development center director, site supervisor, assistant preschool teacher, recreation leader, family day care provider and mentor teacher.	
	<b>Infant-Toddler Option (Degree &amp; Certificate)</b>	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.		
	<b>School Age Option (Degree &amp; Certificate)</b>	Positions as paraprofessional members of the elementary teaching team, recreation leader and teacher, supervisor, and director of school-age child care programs.		
<b>International Business</b>	<b>International Business (Certificate)</b>	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.	
<b>Journalism</b>	<b>Print Journalism, Broadcast Journalism (Degree and Certificate)</b>	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.	

Area of Study	SAC Program	Prepares You For	Job Titles	Orange County Median Earnings*
<b>Liberal Arts</b>	<b>Liberal Arts (Degree)</b>	Provides a basic framework for lifelong learning and transfer to a four-year university.	School counselors.	
<b>Library Technology</b>	<b>Library Technology (Certificate and Degree)</b>	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.	
<b>Management</b>	<b>General Management (Certificate)</b>	Employment in various management positions in business, government and public organizations.	Office manager, office administrator, management trainee.	
	<b>Small Business (Certificate)</b>	A career in small business.	Small business owner/operator.	
	<b>Supervision (Certificate)</b>	Employment in the area of supervision.	Supervisor.	Starting Salary (\$31,000) Median Salary (\$40,000)
	<b>Human Resource Management (Certificate)</b>	Employment in the area of human resources.	Human resource assistant I.	Starting Salary (\$29,000) Median Salary (\$34,000)
	<b>Retail Management (Certificate)</b>	A career in retail management. Satisfies the agreement between the Western Association of Food Chains, Santa Ana College and Santiago Canyon College.	Retail Manager.	
<b>Manufacturing Technology</b>	<b>CNC Programmer, Mastercam (Degree &amp; Certificate)</b>	Positions in industrial and metalworking machinery and equipment manufacturing as computer numeric controlled (CNC) and conventional machine tool operators.	CNC machine programmer.	
	<b>CNC Machine Set Up &amp; Operation (Degree &amp; Certificate)</b>		CNC machine operator.	
	<b>CNC Lathe Set Up and Operation (Degree &amp; Certificate)</b>		CNC lathe operator and lathe machinist.	
	<b>CNC Milling Machine Set Up &amp; Operation (Degree &amp; Certificate)</b>		CNC mill operator and machinist.	
	<b>CAD/CAM Option (Degree &amp; Certificate)</b>		CAD/CAM specialist, programmer and design engineer.	
	<b>Conventional Machining (Degree &amp; Certificate)</b>		Machinist, tool and die maker and mold maker.	
<b>Marketing</b>	<b>General Marketing (Certificate) Advertising (Certificate) Professional Selling (Certificate)</b>		Various marketing, sales and retail store management positions.	Entry-level sales analyst and advertising assistant.
<b>Mathematics</b>	<b>Mathematics (Degree)</b>	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.	
<b>Medical Assistant</b>	<b>Medical Assistant (Certificate)</b>	Entry-level employment in a doctor's front and back office, medical insurance and hospital clerk.	Medical Assistant (MA).	Medical Assistants (\$32,200)
<b>Modern Languages</b>	<b>Degrees in French and Spanish</b>	Provides basic conversational ability and transfer to four-year university.	Interpreters and translators.	
<b>Music</b>	<b>Music (Degree), Digital Music Production and Music-Digital Media Post-Production (Certificate)</b>	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.	
<b>Nutrition &amp; Foods</b>	<b>Nutrition &amp; Dietetics (Degree)</b>	Positions in hospitals, schools, hotels and restaurants, and convalescent homes.	Manager for food service and catering, dietary aide and occupational therapy assistant.	
<b>Occupational Therapy Assistant</b>	<b>Occupational Therapy Assistant (Degree)</b>	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.	
<b>Paralegal</b>	<b>Paralegal (Certificate)</b>	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)
<b>Pharmacy Technology</b>	<b>Pharmacy Technology (Degree)</b>	Employment in the full spectrum of pharmacy settings assisting licensed pharmacists in providing medication and other health-care products to patients.	Pharmacy technician.	Median Salary (\$30,901)
	<b>Pharmacy Technology Basic Option (Certificate)</b>	Positions in outpatient/retail pharmacies, including pharmacies specializing in long-term care and non-sterile compounding.		
	<b>Pharmacy Technology Advanced Option (Certificate)</b>	In addition to outpatient/retail pharmacy employment, positions in hospitals, home infusion pharmacies, and sterile compounding facilities.		
<b>Philosophy</b>	<b>Philosophy (Degree)</b>	Transfer to a four-year university and careers in teaching, theology, law and specialized historical studies.		
<b>Physics</b>	<b>Physics (Degree)</b>	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).	Registered Nurses (\$74,000)
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.	



\*Job titles and salary information from the Employment Development Department, Labor Market Information Division, [www.labormarketinfo.edd.ca.gov](http://www.labormarketinfo.edd.ca.gov)

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