



# 2020-2021

# CAREER and TECHNICAL EDUCATION HANDBOOK





# RIVERSIDE COMMUNITY COLLEGE DISTRICT

Wolde-Ab Isaac, Ph.D., Chancellor  
Riverside Community College District

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Alternate formats for this material are available to individuals requiring disability accommodation. Please contact the office of Diversity, Equity and Compliance at (951) 222-8039.

Students have regularly been seeking out Career and Technical Education (CTE) courses at one of Riverside Community College District colleges in order to prepare themselves for the global workforce. The Moreno Valley, Norco and Riverside City colleges offer more than one hundred CTE certificate and degree patterns in a number of industry sectors. CTE courses offer students the ability to learn skills needed to land opportunities in a high-wage, high-demand field of their choosing. Career and Technical Education courses deliver a technical, core academic education and the employable knowledge individuals need for prolonged career success. CTE students can develop problem-solving capabilities, project-completion skills, research competence, communication tools, time management proficiency, and critical thinking skills through their college coursework. Coursework is comprehensive and rigorous, allowing for career exploration and skill development inside and outside the classroom. Courses provide individuals with options for whatever their future endeavors entail.

New in this handbook – In addition to the for-credit courses and certificates outlined in this CTE Handbook, the colleges also offer noncredit courses and certificates through the Extended Learning platform. An index to these noncredit, free courses and certificates is provided on pages 99-102 of this handbook. More information about Extended Learning can also be found on the District's website at: <https://extendedlearning.rccd.edu>.





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## Admissions Application

Students only need to apply to one of the three colleges within Riverside Community College District (RCCD). The college to which you apply will be your Home College. This is where you will receive services related to assessment, counseling, and financial aid. You can still take classes at any of the three college sites, or online.

### Step 1 - To apply:

Moreno Valley College: [www.mvc.edu](http://www.mvc.edu) and click the *Apply for College* link

Norco College: [www.norcollege.edu](http://www.norcollege.edu) and click the *Apply Now* link

Riverside City College: [www.rcc.edu](http://www.rcc.edu) and click the *Apply Here* link

### Step 2 - Orientation:

Orientation introduces you to terminology, academic programs, and student services and gives you planning tools you'll need to succeed in college. To access the online orientation, log on to your WebAdvisor account and click on the *Take Your Online Orientation* link under the **Academic Planning** header.

### Step 3 - Placement Survey:

This will assist in placing you in the class best suited to your skills. As of October 2018, the placement survey is completed during the application process. You either completed this step through the admissions application or a survey that was sent to your email address. To check for your placements, login to WebAdvisor/MyPortal, go to **Academic Planning**, then click on *Placement Test Summary* to view your results. If you do not see MMAP English or MMAP math placements, go back to **Academic Planning**, then click on *Placement Survey* to complete the survey for placements.

### Step 4 - Abbreviated Student Educational Plan:

**Norco College:** Students schedule an appointment to meet with an educational advisor to create the first semester educational plan and to gain a better understanding of the placement results and courses needed. Phone: (951) 372-7176 • Email: [norcoEC@norcollege.edu](mailto:norcoEC@norcollege.edu)

**Riverside City College:** View your Abbreviated Educational Plan/Trailhead and Placement Summary under **Academic Planning** for suggested first-term courses on <https://portal.rcc.edu>.

**Moreno Valley College:** Complete your Abbreviated Student Educational Plan on [www.mvc.edu/webadvisor](http://www.mvc.edu/webadvisor) or [www.mvc.edu/myportal](http://www.mvc.edu/myportal). Log in, click on student menu, then under the **Academic Planning** header click on *Create First Semester Ed Plan*.

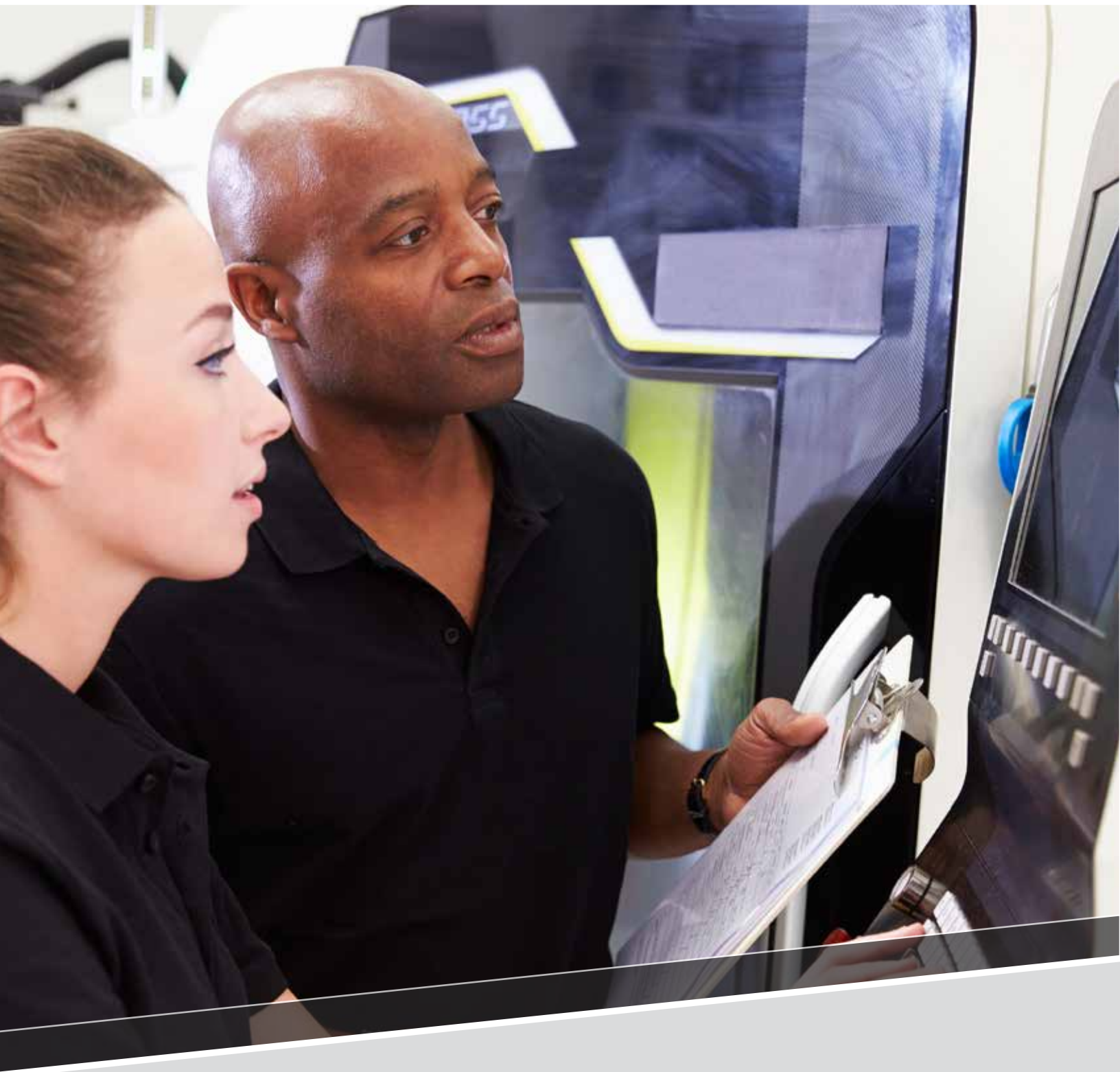
### Step 5 - Counseling:

Students are encouraged to meet with a counselor to receive information on which courses to take to meet their educational and career goals.

### Step 6 - Career and Technical Education Engagement Center:

Students are encouraged to visit the college Career and Technical Education Engagement Center to get assistance from educational advisors and support team.

*Note: Make sure to activate your student email address. This is how the college will communicate important information and updates including registration date, available courses, schedule changes, waitlist status, and more.*



APPRENTICESHIP





## What is an Apprentice?

Apprentices learn the skills of an occupation while earning a paycheck and completing on-the-job training combined with related instruction.

## How Do I Get Started?

Apprenticeship Programs are run by different entities. Some individual companies run internal apprenticeship programs and other times trade unions and employer associations sponsor apprenticeship programs and work with large employer groups.

The best method for getting started is to begin researching programs in occupations you are interested in pursuing. You can use the state's database of approved apprenticeship programs to find contact information for programs available in your area at [www.dir.ca.gov/databases/das/aigstart.asp](http://www.dir.ca.gov/databases/das/aigstart.asp).

Norco College works with apprenticeship programs in the region and can assist you with getting information on the occupations and programs in your area.



*"Thanks to the Machine Operator Apprenticeship program at Norco College, I have increased my skills and landed a job at Aranda Tooling. I was able to buy a new car, support my family, and welcome my son. I also saved enough money for a down payment on a home."*

- Rudy Lucero  
Conventional Machine Operator Apprenticeship  
Aranda Tooling





Apprenticeships are an effective approach for assisting students with knowledge and skills needed in the area of study. There are a number of positives when choosing whether to participate in an apprenticeship, such as a career exploration, strengthening your professionalism, resume building, and improving classroom performance. Apprenticeships also allow students to earn while they learn while experiencing the rigors of their chosen field of study. At the conclusion of an apprenticeship, the student will have developed industry needed qualifications which can lead to improved employability upon graduation. An apprenticeship is all about transferring a student's skillset from the classroom to industry.

## APPRENTICESHIP

### Apprenticeship: Manufacturing Technician I (N) NCE968

Required Courses (14-16 units) - 4-6 courses

Certificate Course Requirements	Units
APP-450 Apprenticeship Work Experience	4
APP-450 Apprenticeship Work Experience	4
Electives	6-8
<b>Electives (6-8 units)</b>	
	<b>Units</b>
ENE-30 Computer Aided Drafting (CAD)	3
ENE-42 SolidWorks I	3
ENE-51 Blueprint Reading	2
ENE-62 Math for Automated Systems	3
MAN-35 Computer Aided Manufacturing	5
MAN-55 Occupational Safety and Health Administration (OSHA)	1
MAN-56 CNC Machine Set-up and Operation	4
MAN-57 CNC Program Writing	3

### Apprenticeship: Manufacturing Technician II (N) NCE967

Required Courses (30-31 units) - 6-8 courses

Certificate Course Requirements	Units
APP-450 Apprenticeship Work Experience	16
Electives	14-15
<b>Electives (14-15 units)</b>	
	<b>Units</b>
ENE-30 Computer Aided Drafting (CAD)	3
ENE-42 SolidWorks I	3
ENE-51 Blueprint Reading	2
ENE-60 Math for Engineering Technology <b>OR</b> ENE-62 Math for Automated Systems	3
MAN-35 Computer Aided Manufacturing	5
MAN-36 General Machine Shop and Theory of Machining	4
MAN-55 Occupational Safety and Health Administration (OSHA)	1
MAN-56 CNC Machine Set-up and Operation	4
MAN-57 CNC Program Writing	3



Moreno Valley College (M)

Norco College (N)

Riverside City College (R)

More than one college





## Electrician Apprenticeship (N)\* NAS485/NAS485B/NAS485C/NCE485

A five-year Electrician apprenticeship program, consisting of full time, on-the-job employment plus related classroom instruction. Completers of this program may qualify for certificate, Associate of Science Degree, and/or a Journey person trade certificate. Students who wish to obtain an Associate in Arts Degree may do so by fulfilling the general graduation requirements in addition to the completion of the apprenticeship courses.

**Required Courses (35 units) - 10 courses**

Certificate Course Requirements	Units
ELE-400 Introduction to the Electrical Trades and Construction Safety	3.5
ELE-401 Introduction to Electrical Theory, Basic Math Concepts, and the National Electric Code	3.5
ELE-402 Advanced DC Circuit Concepts, Introduction to 3-Phase AC Circuits, Test Equipment, and National Electric Code Applications	3.5
ELE-403 AC Circuit Concepts, Applied Electronics, and National Electric Code Applications	3.5
ELE-404 Digital Logic Circuits, Conductor Characteristics, Applications, and National Electric Code (NEC)	3.5
ELE-405 Electrician Blueprint Reading with Code Applications for National Electrical Code (NEC)	3.5
ELE-406 Grounding Systems, Advanced Blueprints and Specifications, Motor Design and Installation, and National Electric Code	3.5
ELE-407 Motor Control Principles, Generators and Power Supplies, with National Electric Code (NEC)	3.5
ELE-408 Transformer Theory, Leadership, Management, and Test Equipment	3.5
ELE-409 Electrician Specialty Systems	3.5

## Manufacturing Technician II (N) NAS967/NAS967B/NAS967C/NCE967

**Required Courses (30-31 units) - 6-8 courses**

Certificate Course Requirements	Units
APP-450 Apprenticeship Work Experience	16
Electives	14-15
<b>Electives (14-15 units)</b>	
ENE-30 Computer Aided Drafting (CAD)	3
ENE-42 SolidWorks I	3
ENE-51 Blueprint Reading	2
ENE-60 Math for Engineering Technology <b>OR</b> ENE-62 Math for Automated Systems	3
MAN-35 Computer Aided Manufacturing	5
MAN-36 General Machine Shop and Theory of Machining	4
MAN-55 Occupational Safety and Health Administration (OSHA)	1
MAN-56 CNC Machine Set-up and Operation	4
MAN-57 CNC Program Writing	3

## Sound and Communication Systems Installer Apprenticeship (N)\* NAS644/NCE644

The new 37 unit Sound and Communication Systems Installer Apprenticeship certificate and AS degree will create a three-year apprenticeship program with the International Brotherhood of Electrical Workers (IBEW). Norco College will become the Lead Education Agency for the program.

**Required Courses (37 units) - 7 courses**

Certificate Course Requirements	Units
ELE-420 Intro to Sound/Communication	3.5
ELE-421 Electrical Theory and Practices DC	3.5
ELE-422 Electrical Theory and Practices AC	3.5
ELE-423 Semiconductor Electronics	3.5
ELE-424 Intro to Digital Electronics and Signaling Devices	3.5
ELE-425 Management/Alarms/Codes/Circuits	3.5
ELE-499 Work Experience in Electricians Apprenticeship	1-4

\* Applicants for Riverside/San Bernardino/Mono/Inyo counties should be directed to the Riverside and San Bernardino Joint Electrical Apprenticeship Training Committees, 1855 Business Center Drive, San Bernardino, CA 92408. Telephone: (909) 890-1703.



ARTS, MEDIA and  
ENTERTAINMENT





## Ready to...

- Use your imagination to find creative solutions to artistic problems?
- Collaborate on project-based assignments?
- Learn how to use technology to help you be more inventive?
- Be part of the business side of entertainment-related industries?



Kevin got his short story published by **Bookends Review**.

*"Without all the support I've received from RCC, I would not have gotten my story published."*

- Kevin Jackson  
FTV student

### Types of Careers

- Photographers
- Web Developers (in ICT)
- Music Composers
- Film and Video Editors
- Sound Engineering Technicians
- Broadcast Technicians
- Television and Film Camera Operators
- Desktop Publishers
- Journalist

### Salary Snapshot

- Photographers: \$19.89
- Web Developers (in ICT): \$24.48
- Music Composers: \$22.04
- Film and Video Editors: \$39.73
- Sound Engineering Technicians: \$15.38
- Broadcast Technicians: \$24.24
- Television and Film Camera Operators: \$21.98
- Desktop Publishers \$20.16

### Industry Sector Pathways

- Animation, 3D Animation, Motion Graphics
- Audio Production, Radio Production
- Audio/Music Technology, Music Industry Studies, Commercial Music
- Dance, Pilates
- Film/Television/Video Production/Electronic Media
- Journalism
- Multimedia: Art/Digital Media, Graphic Design
- Music Performance, Jazz, Piano
- Music Technology, Songwriting
- Photography, Digital Photography
- Post-Production Editing
- Printing Production
- Screenwriting
- Theater Arts, Technical Theatre, Musical Theatre
- Game Art/Design, Game Programming



There are many creative people in this world. Their minds can visualize, hear and imagine great things. If you have a passion for creativity, a career in the Arts, Media, and Entertainment industry may be right for you! Jobs in this industry include animators, multi-media artists, musicians, broadcasters and directors. Check out our programs in Applied Digital Media and Printing, Art, Film/Television and Video, Game Development, Journalism, Music Industry Studies, Photography and Theatre.

## APPLIED DIGITAL MEDIA and PRINTING

### Basic Graphic Communication (R) CE949

Required Courses (20 units) - 7 courses

Certificate Course Requirements	Units
ADM-1 Introduction to Applied Digital Media	3
ADM-2B Prepress and Printing Substrates	2
ADM-63A Design for Print Publication	3
ADM-71A Adobe Photoshop for Image Manipulation <b>OR</b> ADM-77A Adobe Illustrator for Graphic Art	3
ADM-84A Screen Printing	3
ADM-85A Commercial Printing	3
<b>Electives (select 1 course)</b>	
ADM-84B Screen Printing, Advanced	3
ADM-85B Commercial Printing, Advanced	3

### Basic Graphic Design (MR) MCE939/CE939

Required Courses (17 units) - 6 courses

Certificate Course Requirements	Units
ADM-1 Introduction to Applied Digital Media	3
ADM-2A Color Systems and File Management	2
ADM-62 Typography and Graphic Design	3
ADM-63A Design for Print Publication	3
ADM-71A Adobe Photoshop for Image Manipulation	3
ADM-77A Adobe Illustrator for Graphic Art	3

### Electronic Publishing and Design (R) CE951

Required Courses (17 units) - 6 courses

Certificate Course Requirements	Units
ADM-2A Color Systems and File Management	2
ADM-63A Design for Print Publication	3
ADM-63B Design for Electronic Publication <b>OR</b> ADM-74B Web Design with Dreamweaver	3
ADM-71A Adobe Photoshop for Image Manipulation	3
ADM-74A Web Design	3
ADM-77A Adobe Illustrator for Graphic Art	3

### Graphic Design (N) NAS647/NAS647B/NAS647C/NCE647

Required Courses (26 units) - 10 courses

Certificate Course Requirements	Units
ART-22 Basic Design	3
ART-39 Design and Graphics	3
CIS-44 Portfolio Production	2
CIS-59/ ADM-62 Typography and Graphic Design	3
CIS-66 Web Development I <b>OR</b> CIS-72A Introduction to Web Page Production <b>AND</b> CIS-72B Intermediate Web Page Creation Using Cascading Style Sheets (CSS)	3
CIS-72A Introduction to Web Page Production <b>AND</b> CIS-72B Intermediate Web Page Creation Using Cascading Style Sheets (CSS)	1.5
CIS-72B Intermediate Web Page Creation Using Cascading Style Sheets (CSS)	1.5
CIS/CAT-78A Introduction to Adobe Photoshop	3
CIS-78B Advanced Adobe Photoshop	3
CIS/CAT-79 Introduction to Adobe Illustrator	3
CIS-81 Introduction Adobe InDesign	3



## Graphic Design and Digital Media (R)

AS950/AS950B/AS950C/CE950

Required Courses (33 units) - 11-12 courses

Certificate Course Requirements	Units
ADM-1 Introduction to Applied Digital Media	3
ADM-62 Typography and Graphic Design	3
ADM-63A Design for Print Publication	3
ADM-63B Design for Electronic Publication	3
ADM-70 Project Production and Portfolio	3
ADM-71A Adobe Photoshop for Image Manipulation	3
ADM-71B Adobe Photoshop, Advanced	3
ADM-77A Adobe Illustrator for Graphic Art	3
ADM-77B Adobe Illustrator, Advanced	3
Electives	6
<b>Electives (6 units)</b>	
<b>Digital Animation Emphasis:</b>	
ADM-68A 3D Animation with Maya I	3
ADM-68B 3D Animation with Maya II	3
<b>OR</b>	
ART-50A Beginning Storyboarding	3
ART-50B Intermediate Storyboarding	3
<b>Digital Illustration Emphasis:</b>	
ART-36A Computer Art - Introduction	3
ART-36B Computer Art - Intermediate	3
<b>Digital Media Production Emphasis:</b>	
FTV-64A Beginning Digital Editing Principles and Techniques	3
PHO-20 Introduction to Digital Photography	3
<b>Motion Graphics Emphasis:</b>	
ADM-67 Multimedia Animation	3
ADM-69 Motion Graphics and Special Effects with After Effects	3
<b>Web Design Emphasis:</b>	
ADM-74A Web Design	3
ADM-74B Web Design with Dreamweaver	3
<b>OR</b>	
CIS-72A Introduction to Web Page Creation	1.5
CIS-72B Intermediate Web Page Creation using Cascading Style Sheets (CSS)	1.5
CIS-76B Adobe Dreamweaver	3

## Graphic Design and Printing (R)

AS653/AS653B/AS653C/CE653

Required Courses (34 units) - 12 courses

Certificate Course Requirements	Units
ADM-1 Introduction to Applied Digital Media	3
ADM-2A Color Systems and File Management	2
ADM-2B Prepress, Paper and Ink	2
ADM-55 Business Mgmt for Graphic Communications	3
ADM-63A Design for Print Publication	3
ADM-70 Project Production and Portfolio	3
ADM-71A Adobe Photoshop for Image Manipulation	3
ADM-77A Adobe Illustrator for Graphic Art	3
ADM-84A Screen Printing	3
ADM-85A Commercial Printing	3
Electives	6
<b>Electives (6 units)</b>	
<b>Graphic Design Emphasis:</b>	
ADM-62 Typography and Graphic Design	3
ADM-63B Design for Electronic Publication	3
<b>OR</b>	
ADM-71B Adobe Photoshop, Advanced	
<b>OR</b>	3
ADM-77B Adobe Illustrator, Advanced	
<b>Commercial Printing Emphasis:</b>	
ADM-84B Screen Printing Advanced	3
ADM-85B Commercial Printing, Advanced	3
<b>Cross-Discipline Emphasis:</b>	
ADM-67 Multimedia Animation	3
ADM-68A 3D Animation with Maya I	3
ADM-68B 3D Animation with Maya II	3
ADM-69 Motion Graphics and Special Effects w/After Effects	3
ADM-74A Web Design	3
ADM-74B Web Design with Dreamweaver	3
ADM-200 Applied Digital Media and Printing Work Ex.	1-4
ART-22 Basic Design	3
ART-23 Color Theory and Design	3
ART-36A Computer Art - Introduction	3
ART-36B Computer Art - Intermediate	3
FTV-64A Beginning Digital Editing Principles and Techniques	3
MKT-40 Advertising	3
PHO-20 Introduction to Digital Photography	3



## Motion Graphics and 3D Animation (R) CE952

Required Courses (17 units) - 6 courses

Certificate Course Requirements	Units
ADM-2A Color Systems and File Management	2
ADM-67 Multimedia Animation	3
ADM-68A 3D Animation with Maya I	3
ADM-68B 3D Animation with Maya II	3
ADM-69 Motion Graphics and Special Effects with After Effects	3
ADM-71A Adobe Photoshop for Image Manipulation	3

## FILM, TELEVISION and VIDEO

### Basic Television Production (R) CE842

Required Courses (17 units) - 6 courses

Certificate Course Requirements	Units
FTV-38A Beginning Film, Television and Video Production Project	3
FTV-43 Television Studio and Equipment	3
FTV-44A Beginning Television Production	3.5
FTV-45A Beginning Television News Production	3.5
FTV-51A Film, Television and Video Laboratory I	1
FTV-64A Beginning Digital Editing Principles and Techniques	3

### Production Specialist (R) AS641/AS641B/AS641C/CE641

Required Courses (32-33 units) - 11 to 12 courses

Certificate Course Requirements	Units
FTV-41 Introduction to Telecommunications	3
FTV-43 Television Studio and Equipment	3
FTV-44A Beginning Television Production	3.5
FTV-45A Beginning Television News Production	3.5
FTV-48 Short Film Production	3
FTV-51A Film, Television and Video Laboratory I	1
FTV-64A Beginning Digital Editing Principles and Techniques	3

### Production Specialist (R) continued

Choose (3-4 units) from the following:	
FTV-38A Beginning Film, Television and Video Production Project	3
FTV-200 Film, Television and Video Work Experience	1-4
In addition, select 9 units from Film, Television and Video Production Emphasis or Sound Engineering Emphasis	
Film, Television and Video Production Emphasis:	
ADM-69 Motion Graphics and Special Effects with After Effects	3
ADM-71A Adobe Photoshop for Image Manipulation	3
ENG-38 Introduction to Screenwriting	3
FTV-12 History of Film	3
FTV-38B Advanced Film, Television and Video Production Project	3
FTV-42 Writing for Broadcast Television	3
FTV-44B Intermediate Television Production	3.5
FTV-44C Advanced - Intermediate Television Production	3.5
FTV-44D Advanced Television Production	3.5
FTV-45B Intermediate Television News Production	3.5
FTV-45C Advanced - Intermediate Television News Production	3.5
FTV-45D Advanced Television News Production	3.5
FTV-51B Film, Television and Video Laboratory II	1
FTV-51C Film, Television and Video Laboratory III	1
FTV-51D Film, Television and Video Laboratory IV	1
FTV-52 Film, Television and Video Laboratory	2
FTV-53 Telecommunications Laboratory	3
FTV-65 The Director's Art in Film Making	3
FTV-68 Story Development Process in the Entertainment Industry	3
FTV-72 Introduction to Lighting Design for Film and Television	3
FTV-73 Introduction to Pro Tools Digital Audio Recording	3
FTV-74 Production Planning and Management	3
PHO-8 Introduction to Photography	3



## Production Specialist (R) continued

Sound Engineering Emphasis:	
FTV-52 Film, Television and Video Laboratory	2
FTV-53 Telecommunications Laboratory	3
FTV-71A Beginning Sound Engineering for Audio in Media	3
FTV-73 Introduction to Pro Tools Digital Audio Recording	3
FTV-75 Intermediate Digital Audio Recording Pro Tools 110	3
FTV-76 Advanced Digital Audio Recording Pro Tools 201	3
MUS-8A Music Technology I	3

## GAME DEVELOPMENT

### Game Design (N)

NAS685/NAS685B/NAS685C/NCE685

Required Courses (27 units) - 9 courses

Certificate Course Requirements	Units
GAM-1 Business of Video Games	3
GAM-2 History of Video Games	3
GAM-3A Game Design	3
GAM-3B Advanced Game Design	3
GAM-4A Game Scripting	3
GAM-5A Concept Art	3
GAM-6A 3D Digital Modeling	3
GAM-7 Game Studio	3
GAM-8 Current Topics in Game Development	3

### Game Programming (N)

NAS691/NAS691B/NAS691C/NCE691

Required Courses (27 units) - 9 courses

Certificate Course Requirements	Units
GAM-1 Business of Video Games	3
GAM-2 History of Video Games	3
GAM-3A Game Design	3
GAM-4A Game Scripting	3
GAM-4B Advanced Game Scripting	3
GAM-5A Concept Art	3
GAM-6A 3D Digital Modeling	3
GAM-7 Game Studio	3
GAM-8 Current Topics in Game Development	3

## JOURNALISM

### Journalism (R)

Associate Degree for Transfer\*

CSUGE AA670/IGETC AA671

Required Courses (60 units) - See College catalog for degree requirements.

Degree Course Requirements	Units
JOU-1 Introduction to Journalism	3
JOU-7 Mass Communications	3
JOU-20A Newspaper: Beginning	3
List A Select from the list below	3
List B Select from the list below	6-7
<b>List A: Choose 3 units</b>	
JOU-2 Intermediate Reporting/Newsriting	3
JOU/PHO-12 Photojournalism	3
JOU-20B Newspaper: Intermediate	3
<b>List B: Choose 6-7 units</b>	
COM-3 Argumentation and Debate	3
ENG-1B/1BH Critical Thinking and Writing/Honors	4
ENG-11 Creative Writing	3
PHI-11 Critical Thinking	3
PHO-8* Introduction to Photography <b>OR</b> PHO-20* Introduction to Digital Photography	3

\*Students may choose to take PHO-8 or PHO-20 to fulfill the List B requirement, but not both.

\*Associate in Arts for Transfer Degree

The Associate in Arts in Journalism for Transfer Degree (AA-T in Journalism) will be awarded upon completion of 60 California State University (CSU) transferable units including the above major requirements and the Intersegmental General Education Transfer Curriculum (IGETC) or California State University General Education (CSUGE) requirements with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of "C" or better.

Moreno Valley College (M)

Norco College (N)

Riverside City College (R)

More than one college





## MUSIC INDUSTRY STUDIES

### Music Industry Studies: Audio Production (N) NAS684/NAS684B/NAS684C/NCE684

Required Courses (36-38 units) - 12 to 14 courses

Certificate Course Requirements	Units
MIS-1A Beginning Performance Techniques for Studio Recording	2
MIS-1B Intermediate Performance Techniques for Studio Recording	2
MIS-1C Advanced Performance Techniques for Studio Recording	2
MIS-2 Songwriting	2
MIS-3 Digital Audio Production 1	4
MIS-4 Digital Audio Production 2	4
MIS-7 Introduction to Music Technology	3
MIS-12 Live Sound Reinforcement	3
MIS-13 Recording Studio Workshop I	3
MUS-3 Fundamentals of Music	4
MUS-93 The Business of Music	3
Electives	4-6
<b>Elective Courses (4-6 units from the following):</b>	
MUS-4 Music Theory I	4
MUS-23 History of Rock and Roll	3
MUS-32A Class Piano I	2
MUS-32B Class Piano II	2
MUS-32C Class Piano III	2
MUS-38 Beginning Applied Music I	2
MUS-39 Applied Music I	3
MIS-200 Music Industry Studies Work Experience	1-4

Moreno Valley College (M)	
Norco College (N)	
Riverside City College (R)	
More than one college	

## PHOTOGRAPHY

### Photography (R) AS592/AS592B/AS592C/CE592

Required Courses (18 units) - 6 courses

Certificate Course Requirements	Units
PHO-8 Introduction to Photography <b>OR</b> PHO-20 Introduction to Digital Photography	3
PHO-9 Intermediate Photography	3
PHO-10 Advanced Photography	3
PHO-12 Photojournalism	3
PHO-14 Lighting for Portraiture	3
PHO-17 Introduction to Color Photography	3



*"Starting college I didn't have a set career path, but after experiencing the music program at Norco College, I wanted to pursue a career in music. The instructors are understanding and are experts in their fields of study. Meeting and interacting with people of diverse backgrounds has allowed me to establish a bond beyond that of the classrooms. The Norco College Music program created a foundation towards my future."*

- Richard Napalan





## SIMULATION and GAMING

### Game Art (M)

MAS739/MAS739B/MAS739C/MCE739

Required Courses (36 units) - 11 courses

Certificate Course Requirements	Units
ART-17 Beginning Drawing	3
ART-18 Intermediate Drawing	3
ART-22 Basic Design	3
ART-40A Figure Drawing-Introduction	3
CIS/GAM-35 Simulation and Gaming: Game Art	3
CIS-38A Simulation and Gaming/3D Modeling	4
CIS-38B Simulation and Gaming/3D Animation	4
CIS-38C Simulation and Gaming/3D Dynamics and Rendering	4
CIS/CAT-78A Introduction to Adobe Photoshop	3
<b>Elective Courses (6 units)</b>	
ART-23 Color Theory and Design	3
ART-36 Computer Art	3
ART-36A Computer Art-Introduction	3
CIS/CAT-54A Introduction to Flash	3
CIS/CAT-79 Introduction to Adobe Illustrator	3
CIS/GAM-37 Beginning Level Design for Computer	3
CIS/GAME-39 Current Techniques in Game Art	4

Nathaniel, a current FTV student, shares his experience of working with a film crew and creating projects together that help him foster confidence, humility, and openness all of which are valuable qualities for working in the film industry.

*"Constantly working with a crew has the same dynamic as a wolf pack and any success is from constantly holding each other to high accountability, elevating each other to another level."*

- Nathaniel Elbert



## THEATRE

### Technical Theatre (R)

CE914

Required Courses (18 units) - 6 courses

Certificate Course Requirements	Units
<b>Theatre Stagecraft and Practicum (9 units):</b>	
THE-5 Theater Practicum	3
THE-6 Advanced Theater Practicum	3
THE-41 Elementary Stagecraft	3
<b>Design and Practical Application (Choose 9 units from the following):</b>	
THE-25 Makeup for the Stage	3
THE-44 Theatrical Set Design	3
THE-46 Theatrical Costume Design	3
THE-48 Lighting Design	3



BUILDING and  
CONSTRUCTION TRADES





## Ready to...

- Work outdoors and build things with your hands?
- Design large structures using computers?
- Install and maintain complex machinery and equipment?
- Manage and organize multi-faceted construction projects?
- Develop a specialty in a construction-related trade?



### Types of Careers

- Electricians
- Heating and Air Conditioning Installers
- Building Inspectors
- Home Appliance Repairers
- Solar Installers and Technicians

### Salary Snapshot

- Electricians: \$24.16
- Heating and Air Conditioning Installers: \$19.90
- Building Inspectors: \$41.01
- Home Appliance Repairers: \$21.83
- Solar Installers and Technicians: \$19.12

### Industry Sector Pathways

- Building Automation Control, Facilities Operations Technician
- Building Inspection, Inspection Technology
- Construction Technology/Management, Building Construction
- Electrician, Electrician Apprentice, General/Basic Electrician
- Heating, Ventilation, Air Conditioning and Refrigeration
- Plumbing
- Residential Maintenance
- Woodworking
- Land Surveying



Many people like working with their hands. They enjoy taking things apart and putting them back together. If you want to help build the world around you, a career in the Building and Construction Trades may interest you. Jobs in this industry include plumbers, electricians, heating and air conditioning service, and carpenters. Check out our programs in Air Conditioning and Refrigeration, Construction Technology, and Electrician/Electronics.

## AIR CONDITIONING and REFRIGERATION

### Building Automation Control (R) CE944

Courses (21 units) - 7 courses

Certificate Course Requirements	Units
AIR-61A Air Conditioning and Refrigeration, I	3
AIR-64A Air Conditioning and Refrigeration, Electricity I	3
AIR-64B Air Conditioning and Refrigeration, Electricity II	3
AIR-76 Facilities Maintenance – Chillers	3
AIR-90 Building Automation Fundamentals	3
AIR-91 Advanced Building Control Networks	3
AIR-92 Advanced Building Automation Networks and Programming	3



### Building Energy Systems Professional in HVAC Technology (R)

Associate of Science Degree\*  
AS945/AS945B/AS945C

Required Courses (60-74 units) - See College catalog for degree requirements.

Degree Course Requirements	Units
CAT-61 Professional Office Procedures	3
EST-10 Industrial Calculations	3
EST-15 Zero Net Energy Building Science	4
EST-20 California Energy Codes	3
EST-30 Architectural Blueprint Reading	3
EST-200 Energy Systems Technology Work Experience	1-4
Electives	15
<b>Elective Courses (15 units)</b>	
AIR-61A Air Conditioning and Refrigeration, I	3
AIR-64A Air Conditioning and Refrigeration, Electricity I	3
AIR-75 HVACR System Designs	3
AIR-76 Facilities Maintenance – Chillers	3
AIR-77 Energy Conservation Methods for HVACR	3
AIR-84 Boiler and Hydronic Heating	3
AIR-90 Building Automation Fundamentals	3
EST-22 California Mechanical Codes	3

\*Associate of Science Degree  
The Associate of Science Degree in Building Energy Systems Professional in HVAC Technology will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.



## HVAC Commercial Technology (R)

AS946/AS946B/AS946C/CE946

Required Courses (36 units) - 12 courses

Certificate Course Requirements	Units
AIR-61A Air Conditioning and Refrigeration, I	3
AIR-61B Air Conditioning and Refrigeration, II	3
AIR-64A Air Conditioning and Refrigeration, Electricity I	3
AIR-64B Air Conditioning and Refrigeration, Electricity II	3
AIR-75 HVACR System Designs	3
AIR-76 Facilities Maintenance – Chillers	3
AIR-77 Energy Conservation Methods for HVACR	3
AIR-78 Safe Refrigerant Handling and Management	3
AIR-83 All Weather Heating and Cooling Systems	3
AIR-84 Boiler and Hydronic Heating	3
AIR-90 Building Automation Fundamentals	3
EST-22 California Mechanical Codes	3

## HVAC Residential Technology (R)

AS947/AS947B/AS947C/CE947

Required Courses (27 units) - 9 courses

Certificate Course Requirements	Units
AIR-61A Air Conditioning and Refrigeration, I	3
AIR-61B Air Conditioning and Refrigeration, II	3
AIR-64A Air Conditioning and Refrigeration, Electricity I	3
AIR-64B Air Conditioning and Refrigeration, Electricity II	3
AIR-75 HVACR System Designs	3
AIR-77 Energy Conservation Methods for HVACR	3
AIR-78 Safe Refrigerant Handling and Management	3
AIR-80 Gas Heating	3
AIR-83 All Weather Heating and Cooling Systems	3

## Residential Installation (R)

CE948

Required Courses (12 units) - 4 courses

Certificate Course Requirements	Units
AIR-30 Residential Installation	3
AIR-61A Air Conditioning and Refrigeration, I	3
AIR-61B Air Conditioning and Refrigeration, II	3
AIR-78 Safe Refrigerant Handling and Maintenance	3

# CONSTRUCTION TECHNOLOGY

## Construction Management (N)

NAS906/NAS906B/NAS906C/NCE906

Required Courses (24-25 units) - 8 courses

Certificate Course Requirements	Units
CON-62 Blueprint Reading	3
CON-73 Project Planning for Site Construction	3
CON-74 Construction Estimating	3
CON-80 Construction Scheduling	3
ENE-27 Technical Communications	3
MAG-51 Elements of Supervision	3
Electives	6-7
<b>Electives (6-7 units)</b>	
CON-63A Uniform Building Codes and Operations	3
CON-64 Office Procedures and Field Inspections	3
CON-66 National Electrical Code	3
ELE-77 Electrical Theory	3
ELE-408 Transformer Theory, Leadership, Management and Test Equipment	3.5
ELE-409 Electrician Specialty Systems	3.5
ELE-424 Intro to Digital Electronics and Signaling Devices	3.5
ELE-425 Management/Alarms/Codes/Circuits	3.5





## ELECTRICIAN/ ELECTRONICS

### Digital Electronics (N) NAS656/NAS656B/NAS656C/NCE656

Required Courses (29 units) – 8-9 courses

Certificate Course Requirements	Units
ELC/ELE-11 DC (Direct Current) Electronics	4
ELC/ELE-13 AC (Alternating Current) Electronics	4
ELE-25 Digital Techniques	4
ELE-26 Microcontrollers	3
ELE-28 MultiSim CAD PCB Design/Fab	3
ENE/ELE-27 Technical Communications	3
Electives - choose 7 units from the list below	7
<b>Electives (7 units)</b>	
ELC/ELE-97 Fundamentals of Solar Energy	3
ELE-10 Survey of Electronics	4
ELE-23 Electronic Devices and Circuits	4
ELE/MAN-61 Robotics for Manufacturing	3
ELE/MAN-63 LabView Visual Programming for Automated Systems	3
ELE/MAN-64 Programmable Logic Controllers	3
ELE-200 Electronics, Work Experience	1-4
MAN-55 Occupational Safety and Health Administration (OSHA) for General Industry	1



### Construction Technology (N) NAS532/NAS532B/NAS532C/NCE532

Required Courses (30 units) – 11 courses

Certificate Course Requirements	Units
CON-63A Uniform Building Codes and Ordinances	3
CON-64 Office Procedure and Field Inspection	3
CON-65 Plumbing Code	3
CON-66 National Electrical Code	3
CON-67 Mechanical Codes	3
CON-68 Simplified Engineering for Building Inspectors	3
CON-70 Fundamentals of Soil Technology	3
CON-71 Energy Conservation Standards	1.5
CON-72 California State Accessibility Standards	1.5
Electives	6
<b>Electives (6 units)</b>	
CON-60 Introduction to Construction	3
CON-61 Materials of Construction	3
CON-62 Blueprint Reading	3
CON-63BCD Analysis of Revisions to the Uniform Building Code	3-3-3
CON-73 Project Planning for Site Construction	3
CON-200 Construction Work Experience	1-2-3-4

Moreno Valley College (M) ■  
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 Riverside City College (R) ■  
 More than one college ■



## Electrician (N)

NAS766/NAS766B/NAS766C/NCE766

Required Courses (31-32 units) - 9 courses

Certificate Course Requirements	Units
CON-66 National Electrical Code	3
ELC/ELE-71 Residential Electrical Wiring	4
ELC/ELE/MAN-72 Commercial and Industrial Electrical Wiring	4
ELC/ELE/MAN-73 Electric Motors and Transformers	4
ELC/ELE/MAN-74 Industrial Wiring and Controls	4
ELC/ELE-75 Solid State Devices and Lighting Controls	3
ELC/ELE-76 Low Voltage Wiring and Alternate Energy Generation	3
ELC/ELE/MAN-77 Electrical Theory for Electricians	3
ENE-62 Math for Automated Systems <b>OR</b>	3
MAT-36 Trigonometry	4

## Electrician Apprenticeship (N)

NAS485/NAS485B/NAS485C/NCE485

Required Courses (35 units) - 10 courses

Please note that separate application and additional requirements may be needed

Certificate Course Requirements	Units
ELE-400 Introduction to the Electrical Trades and Construction Safety	3.5
ELE-401 Introduction to Electrical Theory, Basic Math Concepts, and the National Electric Code	3.5
ELE-402 Advanced DC Circuit Concepts, Introduction to 3-Phase AC Circuits, Test Equipment, and National Electric Code Applications	3.5
ELE-403 AC Circuit Concepts, Applied Electronics, and National Electric Code Applications and National Electric Code Applications	3.5
ELE-404 Digital Logic Circuits, Conductor Characteristics, Applications, and National Electric Code (NEC)	3.5
ELE-405 Electrician Blueprint Reading with Code Applications for National Electrical Code (NEC)	3.5
ELE-406 Grounding Systems, Advanced Blueprints and Specifications, Motor Design and Installation, and National Electric Code	3.5
ELE-407 Motor Control Principles, Generators and Power Supplies, with National Electric Code (NEC)	3.5
ELE-408 Transformer Theory, Leadership, Management, and Test Equipment	3.5
ELE-409 Electrician Specialty Systems	3.5

## Green Technician (N)

NCE856

Required Courses (7-12 units) - 3-4 courses

Certificate Course Requirements	Units
ELE/MAN-55 Occupational Safety and Health Administration (OSHA) Standards for General Industry	1
ELC/ELE/MAN-77 Electrical Theory for Electricians <b>OR</b>	3
ELE-11 DC Electronics <b>AND</b>	4
ELE-13 AC Electronics	4
ELE-91 Fundamentals of Solar Energy	3

## Sound and Communication Systems Installer

### Apprenticeship (N)

NAS644/NAS644B/NAS644C/NCE644

Required Courses (37 units) - 8-9 courses

Certificate Course Requirements	Units
ELE-420 Intro to Sound/Communication	3.5
ELE-421 Electrical Theory and Practices DC	3.5
ELE-422 Electrical Theory and Practices AC	3.5
ELE-423 Semiconductor Electronics	3.5
ELE-424 Intro to Digital Electronics and Signaling Devices	3.5
ELE-425 Management/Alarms/Codes/Circuits	3.5
ELE-499 Work Experience in Electricians Apprenticeship	1-4





# BUSINESS ADMINISTRATION







## Ready to...

- Own your own business and work for yourself?
- Manage a team of employees?
- Work with financial records to make sure everything adds up?
- Be part of a corporate organization?
- Understand how local, state, national, and global economies work?



*"I had a career in local government for the last 15 years and decided to switch gears. I wanted to follow my passion for business, but I didn't have the necessary skills. Working full time and taking care of my family, I wasn't able to attend classes on campus. The online Business program allowed me to take the classes that I needed without ever setting foot on campus. The online instructors were receptive, quick to respond to questions, and interacted with me in a way that I didn't think was possible. I look forward to starting my online business soon and feel confident that I will succeed."*

- Devona Ramirez  
Online Business Student

### Types of Careers

- Office Administrators:
  - Office Clerks
  - Administrative Assistants
  - Bookkeeping, Accounting, and Auditing Clerks
  - First-Line Supervisors of Office and Administrative
  - Executive Secretaries and Executive Administrative Assistants
  - Administrative Services Managers
- Bookkeepers
- Insurance Adjusters
- Loan Officers
- Human Resources Assistants
- Tax Preparers
- Assessors

### Salary Snapshot

- Office Clerks: \$17.08
- Administrative Assistants: \$18.55
- Bookkeeping, Accounting, and Auditing Clerks: \$19.56
- First-Line Supervisors of Office and Administrative: \$26.40
- Executive Secretaries and Executive Administrative Assistants: \$13.01
- Administrative Services Managers: \$28.12
- Bookkeepers: \$26.99
- Insurance Adjusters: \$18.67
- Loan Officers: \$47.27
- Human Resources Assistants: \$19.65
- Tax Preparers: \$16.46
- Assessors: \$28.04

### Industry Sector Pathways

- Accounting, Financial Planning, Payroll, Income Tax
- Administrative/Office Assistant, Office Professional/Administration
- Banking and Finance, Bank Operations, Personal Finance
- Business Administration, General Business
- Business Information Worker (BIW), Business/Computer Technology, Computer Applications
- Business Literacy
- Human Resources
- Human Services, Career/Employment Support, Case Management
- Leadership Development
- Logistics/Logistics Management
- Management, Supervision, Project Management
- Office Management, Executive Office Management



Everyone needs effective business and financial management, from the self-employed individual to very large corporations. Business and Finance is an exciting industry which offers many different careers, beyond banking. If you are detail-oriented, and enjoy working with numbers and computer applications, you should explore this career path. Jobs in this industry include bookkeepers, chief executives, payroll clerks, tax examiners, and insurance underwriters. Check out our programs in Business Administration, Entrepreneurship, and Small Business Accounting.

## BUSINESS ADMINISTRATION

### Business Administration (M)

Associate Degree for Transfer\*  
CSUGE MAS626/IGETC MAS628

Required Courses (60 units) - See College catalog for degree requirements.

Degree Course Requirements	Units
ACC-1A Principles of Accounting I	3
ACC-1B Principles of Accounting II	3
BUS-10/10H Introduction to Business /Honors	3
BUS-18A Business Law I	3
CIS-1A Introduction to Computer Information Systems	3
ECO-7/7H Principles of Macroeconomics/Honors	3
ECO-8/8H Principles of Microeconomics/Honors	3
MAT-12/12H Statistics/Honors	4

\*Associate in Science for Transfer Degree

Associate Degree for Transfer in Business Administration will be awarded upon completion of 60 California State University (CSU) transferable units including the above major requirements and the Intersegmental General Education Transfer Curriculum (IGETC) or California State University General Education (CSUGE) requirements with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of "C" or better.



### Business Administration (NR)

Associate Degree for Transfer\*  
CSUGE AS626/IGETC AS628  
CSUGE NAS626/IGETC NAS628

Required Courses (60-65 units) - See College catalog for degree requirements.

Degree Course Requirements	Units
ACC-1A Principles of Accounting I	3
ACC-1B Principles of Accounting II	3
BUS-18A Business Law I	3
ECO-7/7H Principles of Macroeconomics/Honors Principle of Macroeconomics	3
ECO-8/8H Principles of Microeconomics/Honors Principle of Microeconomics	3
List A Select from the list below	3-4
List B Select from the list below	6-7
<b>LIST A Select one from the following (3-4 units):</b>	
MAT-4 Finite Mathematics	3
MAT-5 Calculus for Business and Life Science	4
MAT-12/12H Statistics/Honors Statistics	4
<b>LIST B Select two from the following (6-7 units):</b>	
Any course from List A not used above	3-4
CIS-1A Introduction to Computer Information Systems	3
BUS-10/10H Introduction to Business <b>OR</b> BUS-24 Business Communications	3

\*Associate in Science for Transfer Degree

The Associate in Science in Business Administration for Transfer degree will be awarded upon completion of coursework totaling 60 California State University (CSU) transferable units including a minimum of 18 semester units or 27 quarter units in a major area of emphasis, as determined by the community college district, and the Intersegmental General Education Transfer Curriculum (IGETC) or California State University General Education (CSUGE) requirements with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of "C" or better.



## Business Administration - Major Core Requirements+ (MNR)

Required Courses (18 units plus concentration units) - 10 courses

Certificate Course Requirements	Units
ACC-1A Principles of Accounting I	3
BUS-10/10H Introduction to Business	3
BUS-18A Business Law I	3
BUS-20 Business Mathematics	3
BUS-22 Management Communications <b>OR</b> BUS-24 Business Communications	3
CIS-1A Introduction to Computer Information Systems <b>OR</b> BUS/CIS/CAT-3 Computer Applications for Business	3
Major Concentration Requirements	12

## Business Administration-Accounting (MNR)

MAS523/MAS523B/MAS523C/MCE523

NAS523/NAS523B/NAS523C/NCE523

AS523/AS523B/AS523C/CE523

Required Courses (30 units) - 10 courses

Certificate Course Requirements	Units
Business Administration Major Core Requirements+	18
ACC-1B Principles of Accounting II	3
<b>Select another 9 units from the following:</b>	
ACC-61 Cost Accounting	3
ACC-62 Payroll Accounting	3
ACC-63 Income Tax Accounting	3
ACC-65 Computerized Accounting	3
ACC-66 Non-Profit and Governmental Accounting	3
ACC-200 Accounting Work Experience	1-4
BUS/MAG-47 Applied Business and Management Ethics	3

## Business Administration-General Business (MNR)

MAS524/MAS524B/MAS524C/MCE524

NAS524/NAS524B/NAS524C/NCE524

AS524/AS524B/AS524C/CE524

Required Courses (30 units) - 10 courses

Certificate Course Requirements	Units
Business Administration Major Core Requirements+	18
<b>Select another 12 units from the following:</b>	
ACC-1B Principles of Accounting II <b>OR</b> ACC-38 Managerial Accounting	3
BUS-18B Business Law II	3
BUS-40 Introduction to Global Business	3
BUS/MAG-47 Applied Business and Management Ethics	3
BUS-80 Principles of Logistics	3
BUS-200 Business Administration Work Experience	1-4
MAG-51 Elements of Supervision	3
MAG-53 Human Relations	3
MKT-20 Principles of Marketing	3

## Business Administration-Human Resources (R)

AS623/AS623B/AS623C/CE623


Required Courses (30 units) -10 courses

Certificate Course Requirements	Units
Business Administration Major Core Requirements+	18
MAG-56 HRM: Human Resources Management	3
<b>Select another 9 units from the following:</b>	
MAG-51 Elements of Supervision	3
MAG-52 Employee Training and Development	3
MAG-54 Employee Labor Relations	3
MAG/BUS-70 Introduction to Organizational Behavior	3

Moreno Valley College (M) 

Norco College (N) 

Riverside City College (R) 

More than one college 



## Business Administration-Management (MNR)

MAS521/MAS521B/MAS521C/MCE521

NAS521/NAS521B/NAS521C/NCE521

AS521/AS521B/AS521C/CE521

Required Courses (30 units) - 10 courses

Certificate Course Requirements	Units
Business Administration Major Core Requirements*	18
MAG-44 Principles of Management	3
<b>Select another 9 units from the following:</b>	
BUS-48 Global Management	3
MAG-46 Contemporary Quality Systems Management	3
MAG/BUS-47 Applied Business and Management Ethics	3
MAG-53 Human Relations	3
MAG-56 HRM: Human Resources Management	3
MAG-60 Introduction to Hospitality Management	3
MAG-200 Management Work Experience	1-4

## Logistics Management (N)

NAS580/AS580B/AS580C/NCE580

Required Courses (27 units) - 10-11 courses

Certificate Course Requirements	Units
Business Administration Major Core Requirements*	18
BUS-80 Principles of Logistics	3
<b>Select another 9 units from the following:</b>	
BUS-82 Freight Claims	1.5
BUS-83 Contracts	1.5
BUS-85 Warehouse Management	3
BUS-86 Transportation and Traffic Management	3
BUS-87 Purchasing and Supply Management	3
BUS-90 International Logistics	3

## ENTREPRENEURSHIP

### Entrepreneurship (R)

AS531/AS531B/AS531C/CE531

Required Courses (24 units) - 9 courses

Certificate Course Requirements	Units
BUS/CAT/CIS-3 Computer Applications for Business	3
BUS-10/10H Introduction to Business	3
BUS-30 Entrepreneurship and Small Business Management	3
MKT-20 Principles of Marketing	3
Four Electives Courses – at least one from each cluster	12
<b>Cluster 1:</b>	
ACC/CAT-55 Applied Accounting/Bookkeeping	3
ACC-62 Payroll Accounting	3
ACC-65 Computerized Accounting	3
BUS-20 Business Mathematics	3
<b>Cluster 2:</b>	
BUS-18A Business Law I	3
CAT-31 Business Communications	3
MAG/BUS-47 Applied Business and Management Ethics	3
MAG-51 Elements of Supervision	3
MAG-53 Human Relations	3
MAG/BUS-70 Introduction to Organization Development	3
<b>Cluster 3:</b>	
MKT-40 Advertising	3
MKT-41 Techniques of Selling	3
MKT-42 Retail Management	3

Moreno Valley College (M) ■

Norco College (N) ■

Riverside City College (R) ■

More than one college ■



## Entrepreneurship (R)

CE874

Required Courses (15 units) - 5 courses

Certificate Course Requirements	Units
BUS-10/10H Introduction to Business	3
BUS-18A Business Law I	3
BUS-30 Entrepreneurship: Foundations and Fundamentals	3
BUS-51 Principles of Electronic Commerce	3
MKT-20 Principles of Marketing	3

## Entrepreneurship: Getting Started (N)

NCE861

Required Courses (10 units) - 4 courses

Certificate Course Requirements	Units
BUS-12 Opportunity Analysis for Entrepreneurs	2
BUS-13 Developing a Successful Business Plan/Models	2
BUS-14 Social Media and Electronic Marketing for Entrepreneurs	3
BUS-30 Entrepreneurship and Small Business Management	3

## Entrepreneurship: Legal and Finance (N)

NCE864

Required Courses (10 units) - 4 courses

Certificate Course Requirements	Units
ACC-55 Applied Accounting/Bookkeeping	3
BUS-30 Entrepreneurship and Small Business Management	3
BUS-31 Financing Your Business	2
BUS-33 Business Structure and Legal Issues	2

## General Business (R)

CE878

Required Courses (15 units) - 5 courses

Certificate Course Requirements	Units
BUS-10/10H Introduction to Business	3
BUS-48 Global Management	3
MAG/BUS-47 Applied Business and Management Ethics	3
MAG-51 Elements of Supervision	3
MKT-20 Principles of Marketing	3

## Gig Economy (R)

CE872

Required Courses (9 units) - 3 courses

Certificate Course Requirements	Units
BUS-14 Social Media and Online Digital Media Promotions for Entrepreneurs	3
BUS-30 Entrepreneurship: Foundations and Fundamentals	3
BUS-200 Business Administration Work Experience	3

## Human Resources (R)

CE868

Required Courses (15 units) - 5 courses

Certificate Course Requirements	Units
BUS-10/10H Introduction to Business	3
MAG/BUS-47 Applied Business and Management Ethics	3
MAG-52 Employee Training, Development	3
MAG-53 Human Relations	3
MAG-56 HRM: Human Resources Management	3





## International Business (R)

CE929

Required Courses (15 units) - 5 courses

Certificate Course Requirements	Units
BUS-10/10H Introduction to Business	3
BUS-40 Introduction to Global Business	3
BUS-43 Global Marketing	3
BUS-46 Global Trade	3
BUS-48 Global Management	3

## Management (R)

CE877

Required Courses (15 units) - 5 courses

Certificate Course Requirements	Units
BUS-10/10H Introduction to Business	3
BUS-22 Management Communications	3
BUS/MAG-47 Applied Business and Management Ethics	3
BUS-48 Global Management	3
MAG-44 Management	3

## Operations and Production Management (R)

CE833

Required Courses (15 units) - 5 courses

Certificate Course Requirements	Units
BUS/MAG-70 Introduction to Organization Development	3
BUS/MAG-71 Introduction to Productivity Management	3
BUS/MAG-72 Introduction to Quantitative Methods for Business	3
Electives (Choose from list below)	6
<b>Electives (6 units)</b>	<b>Units</b>
BUS-20 Business Mathematics	3
BUS/MAG-47 Applied Business and Management Ethics	3
BUS-80 Principles of Logistics	3
MAG-44 Principles of Management	3
MAG-51 Elements of Supervision	3



## Registered Individual and Small Business Income Tax Preparer (N)

NCE858

Required Courses (4 units) - 1 course

Certificate Course Requirements	Units
ACC-67 U.S. and California Income Tax Preparation	4

## Retail Management/

## Western Association of Food Chains (WAFC) (N)

NAS536/NAS536B/NAS536C/NCE536

Required Courses (30 units) - 10 courses

Certificate Course Requirements	Units
ACC-1A Principles of Accounting I <b>OR</b> ACC/CAT-55 Applied Accounting/Bookkeeping	3
BUS-20 Business Mathematics	3
BUS-22 Management Communications <b>OR</b> BUS-24 Business Communications	3
CIS-1A Introduction to Computer Information Systems <b>OR</b> CIS/CAT/BUS-3 Computer Applications for Business	3
COM-1/1H Public Speaking <b>OR</b> COM-9/9H Interpersonal Communication <b>OR</b> MAG-57 Oral Communications	3
MAG-44 Principles of Management <b>OR</b> MAG-51 Elements of Supervision	3
MAG-53 Human Relations	3
MAG-56 Human Resources Management	3
MKT-20 Principles of Marketing	3
MKT-42 Retail Management	3



## SMALL BUSINESS ACCOUNTING

### Small Business Accounting (MNR) MCE859/NCE859/CE859

Required Courses (6 units) - 2 courses

Certificate Course Requirements	Units
ACC-65 Computerized Accounting	3
<b>Select three units from the following:</b>	
ACC-1A Principles of Accounting	3
ACC/CAT-55 Applied Accounting/Bookkeeping	3

### Small Business Payroll Accounting (MNR) MCE860/NCE860/CE860

Required Courses (6 units) - 2 courses

Certificate Course Requirements	Units
ACC-62 Payroll Accounting	3
<b>Select three units from the following:</b>	
ACC-1A Principles of Accounting	3
ACC/CAT-55 Applied Accounting/Bookkeeping	3



## BUSINESS ADMINISTRATION NONCREDIT

### Accounting Basics for Small Business (MNR) MCC8009/NCC8009/CC8009

Required Courses (48 hours) - 3 courses

Certificate Course Requirements	Hours
ACC-801 Setting Up QuickBooks for Small Business	16
ACC-802 Monthly Procedures Using QuickBooks	16
ACC-803 Year End Procedures with QuickBooks	16

### Business Skills Boot Camp (R) CC8005

Required Courses (36 hours) - 4 courses

Certificate Course Requirements	Hours
BUS/CAT-814 Business Skills: Professional Communication Basics	9
BUS-815 Business Skills: Professional Online Presence	9
BUS-816 Business Skills: Customer Experience	9
BUS/CAT-817 Business Skills: Professional Self-Management	9

### Customer Relations (MNR) MCC8012/NCC8012/CC8012

Required Courses (36 hours) - 3 courses

Certificate Course Requirements	Hours
PDS-806 The Art of Negotiating and Collaborating	12
PDS-807 Personality Styles and Difficult Relations	12
PDS-813 Best Practices in Customer Service	12

### Emerging Leaders (MNR) MCC8013/NCC8013/CC8013

Required Courses (48 hours) - 4 courses

Certificate Course Requirements	Hours
PDS-801 Leadership Skills	12
PDS-802 Supervisory Skills	12
PDS-803 Increasing Productivity	12
PDS-804 Motivating Yourself and Others	12



## Enterprise Communication (MNR)

MCC8014/NCC8014/CC8014

Required Courses (48 hours) - 4 courses

Certificate Course Requirements	Hours
PDS-809 Business Writing in a Technological World	12
PDS-812 Workplace Communication Strategies	12
Electives	24
<b>Elective (24 hours)</b>	
PDS-805 Difficult Conversations	12
PDS-806 The Art of Negotiating and Collaborating	12
PDS-807 Personality Styles and Difficult Relationships	12
PDS-813 Best Practices in Customer Service	12

## Financial Literacy (MNR)

MCC8015/NCC8015/CC8015

Required Courses (27 hours) - 2 courses

Certificate Course Requirements	Hours
PDS-816 Personal Finance	18
PDS-817 Financial Future	9

## GIG: The Solopreneurs Adventure (R)

CC8004

Required Courses (36 hours) - 3 courses

Certificate Course Requirements	Hours
BUS-111 Entrepreneur Mindset	18
BUS-113 Solopreneurs: Personal Finance and QuickBooks Quickstart	9
BUS-815 Business Skills: Professional Online Presence	9

## Sales Techniques (MNR)

MCC8016/NCC8016/CC8016

Required Courses (16 hours) - 2 courses

Certificate Course Requirements	Hours
PDS-814 Closing Techniques that Win the Sale	8
PDS-815 Winning Sales Scripts	8

- Moreno Valley College (M)
- Norco College (N)
- Riverside City College (R)
- More than one college

## Social Media for Business (MN)

MCC8011/NCC8011/CC8011

Required Courses (50 hours) - 5 courses

Certificate Course Requirements	Hours
ENP-801 Facebook for Business	10
ENP-802 Pinterest and Instagram for Business	10
ENP-803 YouTube for Business	10
ENP-804 Twitter for Business	10
ENP-805 LinkedIn for Business	10

## Workplace Essentials (MNR)

MCC8017/NCC8017/CC8017

Required Courses (48 hours) - 4 courses

Certificate Course Requirements	Hours
PDS-808 Critical Thinking, Problem Solving and Decision Making	12
PDS-809 Business Writing in the Technological World	12
PDS-810 Time Management	12
PDS-812 Workplace Communication Strategies	12



Eric owns a brewing business. He took Dr. Wilcoxson's entrepreneurship course and used it to make his dream a reality.

[www.route30brewing.com](http://www.route30brewing.com).

*"While in the entrepreneurship program at RCC, I gained vital critical thinking skills as they apply to business and the confidence to execute the business plan I created thanks to the guidance of my professor. My success as a business owner is due in large part to my time in this program."*

- Eric Brummell





COSMETOLOGY





## Ready to...

- Keep up with the latest cultural and industry trends?
- Design spaces that are functional and aesthetically pleasing?
- Blend your personal creativity with the practical needs of the market?



### Types of Careers

- Hairstylists and Cosmetologists
- Merchandise Displayers
- Barbers
- Interior Designers
- Skincare Specialist
- Fashion Designers
- Makeup Artists

### Salary Snapshot

- Hairstylists and Cosmetologists: \$14.65
- Merchandise Displayers: \$13.91
- Barbers: \$12.08
- Interior Designers: \$24.31
- Skincare Specialist: \$15.27
- Fashion Designers: \$40.59
- Makeup Artists: \$30.67

### Industry Sector Pathways

- Cosmetology
- Cosmetology Entrepreneurship, Management and Supervision, Cosmetology Teacher Training
- Fashion Design/Merchandising, Sewing/Dressmaking
- Floral Design
- Interior Design
- Trim and Upholstery



For people with a great sense of style and strong creative drive, fashion and interior design – Personal Services is an industry worth exploring. Jobs in the Personal Services area include barbers, hair stylists, and estheticians. Check out our programs in Cosmetology.

## COSMETOLOGY

### Barbering Concepts (R)

CE959

Required Courses (47.5-64.5) - 19 courses

Certificate Course Requirements	Units
COS-1A Introduction to Cosmetology Level I	3
COS-1B Introduction to Cosmetology Level II	3
COS-1C Cosmetology Business Concepts	1
COS-10A Level I Hairstyling Concepts	3
COS-10B Level II Hairstyling Concepts	3
COS-10C Level III Hairstyling Concepts	2
COS-20A Level I Chemical Texture Concepts	3
COS-20B Level II Chemical Texture Concepts	3
COS-30A Level I Haircutting Concepts	2
COS-30B Level II Haircutting Concepts	2
COS-30C Level III Haircutting Concepts	1.50
COS-30D Level IV Haircutting Barbering Concepts	7
COS-40A Level I Haircoloring and Bleaching Concepts	3
COS-40B Level II Haircoloring and Bleaching Concepts	3
COS-90A Level I Clinic Floor Concepts	1-8
COS-90B Level II Clinic Floor Concepts	2-8
COS-90C Level III Clinic Floor Concepts	4-8
COS-96A Barbering Theory Exam Readiness	0.5
COS-96B Barbering Practical Exam Readiness	0.5



### Cosmetology (R)

AS534/AS534B/AS534C/CE534

Required Courses (47.5 units) - 5-7 courses.

Please note that separate application and additional requirements may be needed

Certificate Course Requirements	Units
COS-60A Beginning Cosmetology Concepts	11
COS-60B Level II Cosmetology Concepts	10.5
COS-60C Level III Cosmetology Concepts	10
COS-60D Level IV Cosmetology Concepts	8
COS-60E Level V Cosmetology Concepts	8
<b>Evening students may take the following courses to meet the requirement for COS-60E.</b>	
COS-60E1 Level V Cosmetology Concepts	4
COS-60E2 Level V Cosmetology Concepts	4

Moreno Valley College (M)

Norco College (N)

Riverside City College (R)

More than one college



## Cosmetology Business Administration - Entrepreneurial Concentration (R)

AS537/AS537B/AS537C/CE537

**Required Courses (21 units) - 7 courses**

*Please note that separate application and additional requirements may be needed*

Certificate Course Requirements	Units
BUS-10/10H Introduction to Business	3
BUS-20 Business Mathematics	3
BUS-30 Entrepreneurship and Small Business Management	3
Major Concentration Requirements - see below	12
<b>Select another 12 units from the following:</b>	
ACC/CAT-55 Applied Accounting/Bookkeeping	3
ACC-62 Payroll Accounting	3
ACC-65 Computerized Accounting	3
ART-39 Design and Graphics	3
BUS/CAT/CIS-3 Computer Applications for Business	3
CAT-30 Business English	3
MKT-20 Principles of Marketing	3
MKT-40 Advertising	3
MKT-41 Techniques of Selling	3

- Moreno Valley College (M)
- Norco College (N)
- Riverside City College (R)
- More than one college

## Cosmetology Business Administration - Management and Supervision Concentration (R)

AS535/AS535B/AS535C/CE535

**Required Courses (21 units) - 7 courses**

*Please note that separate application and additional requirements may be needed*

Certificate Course Requirements	Units
BUS-10/10H Introduction to Business	3
BUS-20 Business Mathematics	3
BUS-30 Entrepreneurship and Small Business Management	3
Major Concentration Requirements - see below	12
<b>Select another 12 units from the following:</b>	
BUS/CAT/CIS-3 Computer Applications for Business	3
BUS-22 Management Communications <b>OR</b> BUS-24 Business Communication	3
BUS/MAG-47 Applied Business and Management Ethics	3
BUS/MAG-70 Introduction to Organization Development	3
MAG-44 Principles of Management <b>OR</b> MAG-51 Elements of Supervision	3
MAG-53 Human Relations	3
MAG-56 HRM: Human Resources Management	3
MKT-42 Retail Management	3





## Cosmetology Concepts (R)

CE960

Required Courses (53-70 units) - 23 courses

Certificate Course Requirements	Units
COS-1A Introduction to Cosmetology Level I	3
COS-1B Introduction to Cosmetology Level II	3
COS-1C Cosmetology Business Concepts	1
COS-10A Level I Hairstyling Concepts	3
COS-10B Level II Hairstyling Concepts	3
COS-10C Level III Hairstyling Concepts	2
COS-20A Level I Chemical Texture Concepts	3
COS-20B Level II Chemical Texture Concepts	3
COS-30A Level I Haircutting Concepts	2
COS-30B Level II Haircutting Concepts	2
COS-30C Level III Haircutting Concepts	1.50
COS-40A Level I Haircoloring and Bleaching Concepts	3
COS-40B Level II Haircoloring and Bleaching Concepts	3
COS-57A Level I Skin Care Concepts	2.5
COS-57B Level II Skin Care Concepts	2
COS-70A Level I Makeup and Hair removal Concepts	3
COS-80A Level I Nail Care Concepts	2
COS-80B Level II Nail Care Concepts	3
COS-90A Level I Clinic Floor Concepts	1-8
COS-90B Level II Clinic Floor Concepts	2-8
COS-90C Level III Clinic Floor Concepts	4-8
COS-97A Cosmetology Theory Exam Readiness Concepts	0.5
COS-97B Cosmetology Practical Exam Readiness Concepts	0.5

## Cosmetology Instructor Training (R)

CE675

Required Courses (15 units) - 2 courses

Please note that separate application and additional requirements may be needed

Certificate Course Requirements	Units
COS-61A Level I Cosmetology Instructor Concepts	7.5
COS-61B Level I Cosmetology Instructor Concepts	7.5

## Esthetician (R)

CE674

Required Courses (20 units) - 2 courses

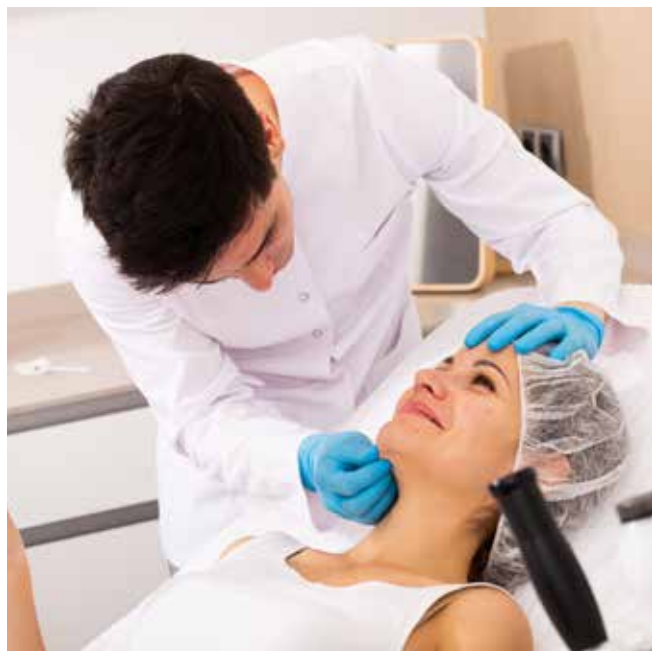
Certificate Course Requirements	Units
COS-62A Level I Esthetician Concepts	10
COS-62B Level II Esthetician Concepts	10

## Esthetician Concepts (R)

CE961

Required Courses (33.5-50.5 units) - 13 courses

Certificate Course Requirements	Units
COS-1A Introduction to Cosmetology Level I	3
COS-1B Introduction to Cosmetology Level II	3
COS-1C Cosmetology Business Concepts	1
COS-57A Level I Skin Care Concepts	2.5
COS-57B Level II Skin Care Concepts	2
COS-57C Level III Skin Care Concepts	8
COS-70A Level I Makeup and Hair Removal Concepts	3
COS-70B Level II Makeup and Hair Removal Concepts	3
COS-90A Level I Clinic Floor Concepts	1-8
COS-90B Level II Clinic Floor Concepts	2-8
COS-90C Level III Clinic Floor Concepts	4-8
COS-98A Esthetics Theory Exam Readiness Concepts	0.5
COS-98B Esthetics Practical Exam Readiness Concepts	0.5





## Hair Styling Concepts (R)

CE962

Required Courses (40.5-57.5 units) - 18 courses

Certificate Course Requirements	Units
COS-1A Introduction to Cosmetology Level I	3
COS-1B Introduction to Cosmetology Level II	3
COS-1C Cosmetology Business Concepts	1
COS-10A Level I Hairstyling Concepts	3
COS-10B Level II Hairstyling Concepts	3
COS-10C Level III Hairstyling Concepts	2
COS-20A Level I Chemical Texture Concepts	3
COS-20B Level II Chemical Texture Concepts	3
COS-30A Level I Haircutting Concepts	2
COS-30B Level II Haircutting Concepts	2
COS-30C Level III Haircutting Concepts	1.50
COS-40A Level I Haircoloring and Bleaching Concepts	3
COS-40B Level II Haircoloring and Bleaching Concepts	3
COS-90A Level I Clinic Floor Concepts	1-8
COS-90B Level II Clinic Floor Concepts	2-8
COS-90C Level III Clinic Floor Concepts	4-8
COS-95A Hairstyling Theory Exam Readiness Concepts	0.5
COS-95B Hairstyling Practical Exam Readiness Concepts	0.5



## Manicuring Concepts (R)

CE963

Required Courses (24-41 units) - 11 courses

Certificate Course Requirements	Units
COS-1A Introduction to Cosmetology Level I	3
COS-1B Introduction to Cosmetology Level II	3
COS-1C Cosmetology Business Concepts	1
COS-80A Level I Nail Care Concepts	2
COS-80B Level II Nail Care Concepts	3
COS-80C Level III Nail Care Concepts	4
COS-90A Level I Clinic Floor Concepts	1-8
COS-90B Level II Clinic Floor Concepts	2-8
COS-90C Level III Clinic Floor Concepts	4-8
COS-99A Manicuring Theory Exam Readiness	0.5
COS-99B Manicuring Practical Exam Readiness	0.5



Moreno Valley College (M) ■

Norco College (N) ■

Riverside City College (R) ■

More than one college ■



EDUCATION,  
CHILD DEVELOPMENT,  
and FAMILY SERVICES





# Ready to...

- Make a measurable difference in peoples' lives?
- Engage with diverse communities of children and adults?
- Explain complex ideas in ways that are easily accessible to learners of all types?



## Types of Careers

- Vocational Education Teachers, Postsecondary
- Social and Human Services Assistants
- Preschool Teachers
- Self-enrichment Education Teachers
- Library Technicians
- Childcare Center Directors

## Salary Snapshot

- Vocational Education Teachers, Postsecondary: \$44.27
- Social and Human Services Assistants: \$17.90
- Preschool Teachers: \$14.33
- Self-enrichment Education Teachers: \$17.03
- Library Technicians: \$20.81
- Childcare Center Directors: \$18.18

## Industry Sector Pathways

- Child Development
- Child Development Site Supervisor
- Child Development Teacher, Assistant/Associate/ Master Teacher
- Day Care Provider, Family Day Care
- Early Childhood Education (ECE), ECE 12 Core Units
- Early Childhood Specializations: Infant, Toddler, Early Intervention and Inclusion
- Education Paraprofessional
- Education Technology
- Gerontology, Community Caregiver
- Interpretation: Community Interpretation
- Sign Language Interpreting, American Sign Language
- Teacher Preparation, Elementary Teacher Education





Educators have the opportunity to influence a person's life in so many positive ways. If you have a passion for education, or a desire to help people, and take satisfaction in making an important difference in other people's lives, then a career in Education, Child Development and Family Services is for you! Jobs in this industry include teachers, family advocates, school counselors, social workers, and elder care coordinators. Check out our programs in Community Interpretation, Early Childhood Education, Education Paraprofessional, Human Services and Sign Language Interpreting.



## EARLY CHILDHOOD EDUCATION

### Child and Adolescent Development (N)

Associate Degree for Transfer\*

CSUGE NAA885/IGETC NAA886

Required Courses (18-20 units) - See College catalog for degree requirements.

## COMMUNITY INTERPRETATION

### Community Interpretation (M)

MAS557/MAS557B/MAS557C/MCE557

Required Courses (18 units) - 4 courses

Certificate Course Requirements	Units
CMI-61 Introduction to Spanish English Translation	3
CMI-71 Bilingual Interpretation for the Medical Professions	6
CMI-81 Bilingual Interpretation for the Legal Professions	6
CMI-91 Introduction to Translation and Interpretation for Business and Interpretation for Business	3

Certificate Course Requirements	Units
EAR-20 Child Growth and Development	3
MAT-12/12H Statistics/Honors	4
<b>OR</b>	
PSY-48/SOC-48 Statistics for the Behavioral Sciences	3
PSY-1/1H General Psychology/Honors	3
List A Select from the list below	3
List B Select from the list below	6-7
<b>LIST A Select one course from below (3 units)</b>	
ANT-2/2H Cultural Anthropology/Honors	3
EAR-42 Child, Family, and Community	3
SOC-1/1H Introduction to Sociology/Honors	3
SOC-10 Race and Ethnic Relations	3
SOC-12 Marriage and Family Relations	3
<b>LIST B Select two courses from below (6-7 units)</b>	
BIO-1/1H General Biology/Honors	4
<b>OR</b>	
BIO-10 Life Science Principles	3
EAR-24 Introduction to Curriculum	3
EAR-28 Principles and Practices of Teaching Young Children	3
PSY-9 Developmental Psychology	3

- Moreno Valley College (M)
- Norco College (N)
- Riverside City College (R)
- More than one college

\* Associate in Science for Transfer Degree  
The Associate in Science in Child and Adolescent Development for Transfer degree will be awarded upon completion of 60 California State University (CSU) transferable units including the above major requirements and the Intersegmental General Education Transfer Curriculum (IGETC) or California State University General Education (CSUGE) requirements with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of "C" or better.



## Early Childhood Education (MNR)

Associate Degree for Transfer\*

CSUGE AS529/IGETC AS530

CSUGE MAS529/IGETC MAS530

CSUGE NAS529/IGETC NAS530

Required Courses (60-64 units) – See College catalog for degree requirements.

Degree Course Requirements	Units
EAR-19 Observation and Assessment in Early Childhood Education	3
EAR-20 Child Growth and Development	3
EAR-24 Introduction to Curriculum	3
EAR-25 Teaching in a Diverse Society	3
EAR-26 Health, Safety and Nutrition	3
EAR-28 Principles and Practices of Teaching Young Children	3
EAR-30 Practicum in Early Childhood Education	4
EAR-42 Child, Family, and Community	3

\* Associate in Science for Transfer Degree

The Associate in Science in Early Childhood Education for Transfer degree will be awarded upon completion of 60 California State University (CSU) transferable units including the above major requirements and the Intersegmental General Education Transfer Curriculum (IGETC) or California State University General Education (CSUGE) requirements with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of "C" or better.

## Early Childhood Education Assistant Teacher (MNR)

MCE795/NCE795/CE795

Required Courses (6 units) – 2 courses

Certificate Course Requirements	Units
<b>Complete two courses from the list below:</b>	
EAR-20 Child Growth and Development	3
EAR-24 Introduction to Curriculum	3
EAR-28 Principles and Practices of Teaching Young Children	3
EAR-42 Child, Family, and Community	3

## Early Childhood Education Twelve Core Units (MNR)

MCE797/NCE797/CE797

Required Courses (12 units) – 4 courses

Certificate Course Requirements	Units
EAR-20 Child Growth and Development	3
EAR-24 Introduction to Curriculum	3
EAR-28 Principles and Practices of Teaching Young Children	3
EAR-42 Child, Family, and Community	3

## Early Childhood Education (MNR)

MAS544/MAS544B/MAS544C/MCE544

NAS544/NAS544B/NAS544C/NCE544

AS544/AS544B/AS544C/CE544

Required Courses (31 units) - 10-11 courses

Certificate Course Requirements	Units
EAR-19 Observation and Assessment in Early Childhood Education	3
EAR-20 Child Growth and Development	3
EAR-24 Introduction to Curriculum	3
EAR-25 Teaching in a Diverse Society	3
EAR-26 Health, Safety and Nutrition	3
EAR-28 Principles and Practices of Teaching Young Children	3
EAR-30 Practicum in Early Childhood Education	4
EAR-42 Child, Family, and Community	3
Electives (Choose from the list below)	6
<b>Electives (6 units)</b>	
EAR-23 Family Home Child Care Program	3
EAR-33 Infant and Toddler Development	3
EAR-34 Infant and Toddler Care and Education	3
EAR-38 Adult Supervision and Mentoring in Early Childhood Education	3
EAR-40 Introduction to Children with Special Needs	3
EAR-41 Practicum in Early Intervention/Special Education	4
EAR-43 Children with Challenging Behaviors	3
EAR-44 Administration I: Programs in Early Childhood Education	3
EAR-45 Administration II: Personnel and Leadership in Early Childhood Education	3
EAR-46 Curriculum and Strategies for Children with Special Needs	3
EAR-47 Childhood Stress and Trauma	3
EAR-53 Parenting: Guiding Young Children - Approaches to Discipline	2
EAR-54 Parenting: Contemporary Parenting Issues	1
EDU-1 Introduction to Elementary Classroom Teaching	4
ENG-30 Children's Literature	3
KIN-6 Introduction to Physical Education for Preschool and Elementary Children	3
KIN-30 First Aid and CPR	3
MUS-1 Teaching Music to Young Children	3



## Early Childhood Intervention Assistant (MNR)

MAS601/MAS601B/MAS601C/MCE601

NAS601/NAS601B/NAS601C/NCE601

AS601/AS601B/AS601C/CE601

Required Courses (34 units) – 11 courses

Certificate Course Requirements	Units
EAR-19 Observation and Assessment in Early Childhood Education	3
EAR-20 Child Growth and Development	3
EAR-24 Introduction to Curriculum	3
EAR-28 Principles and Practices of Teaching Young Children	3
EAR-40 Introduction to Children with Special Needs	3
EAR-41 Practicum in Early Intervention/Special Education	4
EAR-42 Child, Family, and Community	3
EAR-43 Children with Challenging Behaviors	3
EAR-46 Curriculum and Strategies for Children with Special Needs	3
Electives (Choose from the list below)	6
<b>Electives (6 units)</b>	
EAR-23 Family Home Child Care Program <b>OR</b> EAR-26 Health, Safety and Nutrition	3
EAR-33 Infant and Toddler Development	3
EAR-34 Infant and Toddler Care and Education	3
EAR-38 Adult Supervision and Mentoring in Early Childhood Education	3
EAR-44 Administration I: Programs in Early Childhood Education	3
EAR-47 Childhood Stress and Trauma	3

## Infant and Toddler Specialization (MR)

MCE681/CE681

Required Courses (12 units) – 4 courses

Certificate Course Requirements	Units
EAR-20 Child Development	3
EAR-33 Infant and Toddler Development	3
EAR-34 Infant and Toddler Care and Education	3
EAR-35 Practicum in Infant and Toddler Care	3

# EDUCATION PARAPROFESSIONAL

## Education Paraprofessional (M)

MAS603/MAS603B/MAS603C/MCE603

Required Courses (22 units) – 7 courses

Certificate Course Requirements	Units
BIO-1/1H General Biology	4
COM-1/1H Public Speaking	3
EAR-20 Child Growth and Development	3
EDU-1 Introduction to Elementary Classroom Teaching	4
EDU-200 Education Work Experience	1
ENG-1A/1AH English Composition	4
HES-1 Health Science	3

## Education Paraprofessional (R)

AS603/AS603B/AS603C/CE603

Required Courses (25-27 units) – 7-8 courses

Certificate Course Requirements	Units
COM-1/1H Public Speaking <b>OR</b> COM-9/9H Interpersonal Communication	3
EAR-20 Child Growth and Development	3
EDU-1 Introduction to Elementary Classroom Teaching	4
ENG-1A/1AH English Composition <b>OR</b> ENG-50 Basic English Composition	4
HIS-6/6H United States History to 1877/Honors <b>OR</b> HIS-7/7H United States History from 1865/Honors	3
Electives	8-10
<b>Electives (8-10 units)</b>	
EAR-26 Health, Safety and Nutrition	3
ENG-30 Children's Literature	3
KIN-30 First Aid and CPR	3
SPA-3N Spanish for Spanish Speakers	5

Moreno Valley College (M)

Norco College (N)

Riverside City College (R)

More than one college



## HUMAN SERVICES

### Behavioral Therapist (M) MCE897

Required Courses (25-28 units) - 9 courses

Certificate Course Requirements	Units
HMS-34 Behavioral Therapist - Counseling Emotionally Disabled Students	3
HMS-35 Behavioral Therapist - Counseling Students with a Learning Disability	3
HMS-36 Behavioral Therapist - Counseling Families of Special Needs Youth	3
HMS-37 Behavioral Therapist - Counseling of Clients with Disabilities	3
HMS-38 Behavioral Therapist - Introduction to Applied Behavioral Analysis	3
HMS-39 Behavioral Therapist - Introduction to Special Education and the IEP (Individualized Education Program)	3
WKX/HMS-200 Human Services Work Experience	1-4
<b>Electives Courses (6 units)</b>	
HMS-6 Introduction to Case Management	3
HMS-7 Psychosocial Rehabilitation	3
HMS-22 Human Behavior and the Social Environment	3
HMS-24 Careers in Social Work - Self-Care for Human Services Professionals	3
HMS-25 Careers in Social Work - Crisis Intervention Management	3



### Careers in Social Work (M) MCE898

Required Courses (23-26) - 9 courses

Certificate Course Requirements	Units
HMS-6 Introduction to Case Management	3
HMS-13 Employment Support Strategies	3
HMS-16 Public Assistance and Benefits	1
HMS-18 Introduction to Social Work	3
HMS-19 Generalist Practices of Social Work	3
HMS-29 Careers in Social Work - Intro to Careers in Social Work	3
WKX/HMS-200 Human Services Work Experience	1-4
<b>Electives Courses (6 units)</b>	
HMS-4 Introduction to Human Services	3
HMS-5 Introduction to Evaluation and Counseling	3
HMS-7 Psychosocial Rehabilitation	3
HMS-8 Introduction to Group Process	3
HMS-17 Introduction to Public Mental Health	3
HMS-20 Medical Social Work	3
HMS-21 Justice System Studies - Forensic Social Work	3
HMS-22 Human Behavior and the Social Environment	3
HMS-23 Careers in Social Work - Law and Ethics	3
HMS-24 Careers in Social Work - Self-Care for Human Services Professionals	3
HMS-25 Careers in Social Work - Crisis-Intervention Management	3
HMS-26 Careers in Social Work - Trauma-Focused Counseling	3
HMS-27 Careers in Social Work - Multi-Cultural Counseling	3
HMS-28 Careers in Social Work - Military Social Work	3
HMS-37 Behavioral Therapist - Counseling of Clients with Disabilities	3
HMS-42 Family Studies - Counseling in Foster Care	3
HMS-43 Family Studies - Counseling in Gerontology	3
HMS-49 Careers in Social Work - Counseling Athletes	3
HMS-60 Introduction to Drugs and Alcohol	3
HMS-62 Introduction to the DSM-5	3
HMS-73 Administration in Social Work - Social Work Administration Studies	3



**Child Welfare (M)**

**MCE899**

**Required Courses (19-22) - 7 courses**

Certificate Course Requirements	Units
HMS-18 Introduction to Social Work	3
HMS-19 Generalist Practices of Social Work	3
HMS-22 Human Behavior and the Social Environment	3
HMS-42 Family Studies - Counseling in Foster Care	3
WKX/HMS-200 Human Services Work Experience	1-4
<b>Elective Courses (6 units)</b>	
HMS-5 Introduction to Evaluation and Counseling	3
HMS-6 Introduction to Case Management	3
HMS-24 Careers in Social Work - Self-Care for Human Services Professionals	3
HMS-25 Careers in Social Work - Crisis-Intervention Management	3
HMS-26 Careers in Social Work - Trauma-Focused Counseling	3
HMS-35 Behavioral Therapist - Counseling Students with a Learning Disability	3
HMS-36 Behavioral Therapist - Counseling Families of Special Needs Youth	3
HMS-44 Justice System Studies - Counseling Youth in Gangs	3
HMS-47 Counseling of Residential Treatment Clients	3
HMS-62 Introduction to the DSM-5	3

**Drug and Alcohol Studies (M)**

**MCE900**

**Required Courses (22-25 units) - 8 courses**

Certificate Course Requirements	Units
HMS-20 Medical Social Work	3
HMS-47 Counseling of Residential Treatment Clients	3
HMS-60 Introduction to Drugs and Alcohol	3
HMS-61 Evaluation of Controlled Substances	3
HMS-62 Introduction to the DSM-5	3
WKX/HMS-200 Human Services Work Experience	1-4
<b>Elective Courses (6 units)</b>	
HMS-4 Introduction to Human Services	3
HMS-5 Introduction to Evaluation and Counseling	3
HMS-6 Introduction to Case Management	3
HMS-7 Psychosocial Rehabilitation	3
HMS-8 Introduction to Group Process	3
HMS-17 Introduction to Public Mental Health	3
HMS-19 Generalist Practices of Social Work	3
HMS-22 Human Behavior and the Social Environment	3
HMS-24 Careers in Social Work - Self-Care for Human Services Professionals	3
HMS-25 Careers in Social Work - Crisis Intervention Management	3

**Employment Support Specialization (M)**

**MCE802**

**Required Courses (4 units) - 2 courses**

Certificate Course Requirements	Units
HMS-13 Employment Support Strategies	3
HMS-16 Public Assistance and Benefits	1

- Moreno Valley College (M)
- Norco College (N)
- Riverside City College (R)
- More than one college



## Family Studies (M)

MCE901

Required Courses (22-25 units) - 8 courses

Certificate Course Requirements	Units
HMS-22 Human Behavior and the Social Environment	3
HMS-40 Family Studies - Counseling Youth and Adolescents	3
HMS-41 Family Studies - Counseling Victims of Domestic Violence	3
HMS-42 Family Studies - Counseling in Foster Care	3
HMS-43 Family Studies - Counseling in Gerontology	3
WKX/HMS-200 Human Services Work Experience	1-4
<b>Elective Courses (6 units)</b>	
HMS-5 Introduction to Evaluation and Counseling	3
HMS-8 Introduction to Group Process	3
HMS-17 Introduction to Public Mental Health	3
HMS-18 Introduction to Social Work	3
HMS-19 Generalist Practices of Social Work	3
HMS-25 Careers in Social Work - Crisis-Intervention Management	3
HMS-26 Careers in Social Work - Trauma-Focused Counseling	3
HMS-27 Careers in Social Work - Multi-Cultural Counseling	3
HMS-36 Behavioral Therapist - Counseling Families of Special Needs Youth	3
HMS-62 Introduction to the DSM-5	3



## Human Services (M)

MAS663/MAS663B/MAS663C/MCE663

Required Courses (20-23 units) - 8 courses

Certificate Course Requirements	Units
HMS-4 Introduction to Human Services	3
HMS-5 Introduction to Evaluation and Counseling	3
HMS-6 Introduction to Case Management	3
HMS-8 Introduction to Group Process	3
HMS-16 Public Assistance and Benefits	1
HMS/WKX-200 Human Services Work Experience	1-4
<b>Electives (6 units)</b>	
HMS-7 Introduction to Psychosocial Rehabilitation	3
HMS-13 Employment Support Strategies	3
HMS-14 Job Development	3
HMS-17 Introduction to Public Mental Health	3
HMS-18 Introduction to Social Work	3
HMS-19 Generalist Practices of Social Work	3



## Justice System Studies (M)

MCE902

Required Courses (26-29 units) - 10 courses

Certificate Course Requirements	Units
HMS-16 Public Assistance and Benefits	1
HMS-21 Justice System Studies - Forensic Social Work	3
HMS-44 Justice System Studies - Counseling Youth in Gangs	3
HMS-45 Justice System Studies - Counseling Youth on Probation	3
HMS-46 Justice System Studies - Counseling Adults on Parole	3
HMS-47 Counseling of Residential Treatment Clients	3
HMS-48 Justice System Studies - Case Management Corrections	3
WKX/HMS-200 Human Services Work Experience	1-4
<b>Elective Courses (6 units)</b>	
HMS-8 Introduction to Group Process	3
HMS-17 Introduction to Public Mental Health	3
HMS-18 Introduction to Social Work	3
HMS-19 Generalist Practices of Social Work	3
HMS-60 Introduction to Drugs and Alcohol	3
HMS-61 Evaluation of Controlled Substances	3
HMS-62 Introduction to the DSM-5	3

## Military Social Work (M)

MCE903

Required Courses (23-26 units) - 9 courses

Certificate Course Requirements	Units
HMS-7 Psychosocial Rehabilitation	3
HMS-16 Public Assistance and Benefits	1
HMS-18 Introduction to Social Work	3
HMS-26 Careers in Social Work - Trauma-Focused Counseling	3
HMS-28 Careers in Social Work - Military Social Work	3
HMS-60 Introduction to Drugs and Alcohol	3
WKX/HMS-200 Human Services Work Experience	1-4
<b>Elective Courses (6 units)</b>	
HMS-5 Introduction to Evaluation and Counseling	3
HMS-6 Introduction to Case Management	3
HMS-8 Introduction to Group Process	3
HMS-17 Introduction to Public Mental Health	3
HMS-19 Generalist Practices of Social Work	3
HMS-22 Human Behavior and the Social Environment	3
HMS-62 Introduction to the DSM-5	3



Moreno Valley College (M)

Norco College (N)

Riverside City College (R)

More than one college



## Multicultural Counseling (M)

MCE904

Required Courses (22-25 units) - 9 courses

Certificate Course Requirements	Units
HMS-27 Careers in Social Work - Multi-Cultural Counseling	3
HMS-30 Multicultural Counseling - Counseling African Americans	3
HMS-31 Multicultural Counseling - Counseling Hispanics	3
HMS-32 Multicultural Counseling - Counseling Asians	3
HMS-33 Multicultural Counseling - Counseling Native Americans	3
WKX/HMS-200 Human Services Work Experience	1-4
<b>Elective Courses (6 units)</b>	
HMS-5 Introduction to Evaluation and Counseling	3
HMS-8 Introduction to Group Process	3
HMS-17 Introduction to Public Mental Health	3
HMS-18 Introduction to Social Work	3
HMS-19 Generalist Practices of Social Work	3
HMS-22 Human Behavior and the Social Environment	3
HMS-37 Behavioral Therapist - Counseling of Clients with Disabilities	3
HMS-62 Introduction to the DSM-5	3

## Social Work Administration Studies (M)

MCE917

Required Courses (23-26 units) - 9 courses

Certificate Course Requirements	Units
HMS-16 Public Assistance and Benefits	1
HMS-70 Social Work Administration Studies Non-Profit Organizations	3
HMS-71 Social Work Administration Studies Grant Writing	3
HMS-72 Social Work Administration Studies Social Welfare Policies	3
HMS-73 Social Work Administration Studies Administration in Social Work	3
HMS-74 Social Work Administration Studies Social Work Theory	3
WKX/HMS-200 Human Services Work Experience	1-4
<b>Elective Courses (6 units)</b>	
HMS-4 Introduction to Human Services	3
HMS-13 Employment Support Strategies	3
HMS-18 Introduction to Social Work	3
HMS-19 Generalist Practices of Social Work	3
HMS-29 Careers in Social Work - Intro to Careers in Social Work	3







# SIGN LANGUAGE INTERPRETING

## Sign Language Interpreting (R)

AA505/AA505B/AA505C/CE505

Required Courses (28.5 units) - 8 courses

Certificate Course Requirements	Units
ASL-5 American Sign Language for Interpreters	4
ASL-10 Introduction to Sign Language Interpreting	3
ASL-11 American Sign Language Interpreting I	4.5
ASL-12 American Sign Language Interpreting II	4.5
ASL-13 American Sign Language Interpreting III	4.5
ASL-14 American Sign Language Interpreting IV/ Practicum	2
ASL-20 Ethics and Professional Standards of Interpreting	3
ASL-22 American Deaf Culture	3

Mayra is a current ECE student who plans to transfer from RCC to major in family and consumer sciences with an option in child development.

*"I enrolled in college knowing I wanted to get an education, however, I was unsure about what field. After taking an Early Childhood class and talking with counselors and faculty, my path was clear. I was interested in working with families, focusing on child development, and the associate degree for transfer in Early Childhood Education gave me the tools and the hands-on experience I needed to succeed."*

- Mayra Figueroa

Moreno Valley College (M) ■

Norco College (N) ■

Riverside City College (R) ■

More than one college ■



ENERGY, ENVIRONMENT,  
and UTILITIES





## Ready to...

- Work with state-of-the-art technology and machines?
- Balance energy needs with environmental concerns?
- Learn a practical trade that is transferable to any location?
- Be part of an industry with a potentially global impact?



### Types of Careers

- Industrial Machinery Mechanics
- Water and Wastewater Plant and System Operators
- Electrical Power-Line Installers and Repairers
- Hazardous Materials Removal Workers
- Electrical Substation Repairers
- Millwrights
- Signal and Track Switch Repairers
- Gas Plant Operators

### Salary Snapshot

- Industrial Machinery Mechanics: \$27.91
- Water and Wastewater Plant and System Operators: \$32.87
- Electrical Power-Line Installers and Repairers: \$35.92
- Hazardous Materials Removal Workers: \$20.54
- Electrical Substation Repairers: \$43.91
- Millwrights: \$36.03
- Signal and Track Switch Repairers: \$37.65
- Gas Plant Operators: \$47.13

### Industry Sector Pathways

- Fiber Optic Cabling
- Industrial Electrical, Electromechanical Technology, Electric Power Technology
- Alternative Fuels, Advanced Transportation Technology
- Energy Systems Technology
- Green Technician, Renewable Energy, Green HVAC
- Water Technology, Water Resource Management



The United States is not only one of the world's leading suppliers of energy, it is also one of its largest consumers. To serve this ever-expanding market, the Energy, Environment, and Utilities sector employs technicians in electrical, mechanical, and construction jobs as well as architects, engineers, business managers, sales/marketing professionals, and public policy specialists.

With the increase of public and governmental interest in renewable energy, clean energy generation, and energy efficiency, job opportunities across the energy spectrum are growing rapidly and will continue to do so, especially since 40% of the existing workforce will be eligible for retirement in the next five years. As a result, employers will need skilled workers for traditional energy jobs as well as future energy-related positions. While this sector consists of many different kinds of companies and products, skills developed in one area are generally transferable to others.

In California alone, this sector creates 15,000 jobs per year, many of which are for high-wage jobs, starting at \$40,000 and progressing to more than \$100,000. Especially strong demand is projected for Heating, Ventilation, and Air Conditioning (HVAC) technicians, electricians, plumbers and pipefitters, utility workers, engineers, and a wide range of business professionals. According to some estimates, jobs in the energy and environment sector could triple over the next decade.

## ENERGY SYSTEMS TECHNOLOGY

### Building Inspection Technology (R) CE964

Required Courses (27 units) - 9 courses

Certificate Course Requirements	Units
EST-20 California Energy Codes	3
EST-21 California Building Codes	3
EST-22 California Mechanical Codes	3
EST-23 California Plumbing Codes	3
EST-24 California Electrical Codes	3
EST-25 California Residential Codes	3
EST-26 California Fire Codes	3
EST-32 Architectural Practice I	3
EST-33 Materials of Construction	3

### Zero Net Energy (R) CE965

Required Courses (17-20 units) - 6 courses

Certificate Course Requirements	Units
CAT-61 Professional Office Procedures	3
EST-10 Industrial Calculations	3
EST-15 Zero Net Energy Building Science	4
EST-20 California Energy Codes	3
EST-30 Architectural Blueprint Reading	3
EST-200 Energy Systems Technology Work Experience	1-4

Moreno Valley College (M)

Norco College (N)

Riverside City College (R)

More than one college



# ENGINEERING and ARCHITECTURE





## Ready to...

- Solve complex problems using an understanding of math, physics, and the related sciences?
- Design new ideas and structures using the latest technologies?
- Engineer the physical infrastructure for tomorrow's information systems?
- Blend creative ideas with practical, real-world solutions?



*"The STEM Pathway Program opened many doors and connected me with successful people in STEM fields. I not only grew as a person, I also gained valuable knowledge on topics related to professional development, transfer process and strategies on being successful in a STEM field. I can honestly say I would not be at the end of the UCR Engineering program if it wasn't for the STEM scholars program. I felt welcomed every day and I speak from experience when I say it is a place where no matter if you fail, you have so much support to help you get back up."*

- Brenda Lopez  
Norco College  
School of STEM

### Types of Careers

- Civil Drafters
- Surveying Technicians (same as Mapping Tech)
- Electro-Mechanical Technicians (in ICT)
- Power Distributors and Dispatchers
- Nuclear Technicians
- Mapping Technicians (same as Survey Tech)

### Salary Snapshot

- Civil Drafters: \$27.24
- Surveying Technicians: \$28.08
- Electro-Mechanical Technicians: \$30.99
- Power Distributors and Dispatchers: \$45.90
- Nuclear Technicians: \$43.85
- Mapping Technicians: \$28.08

### Industry Sector Pathways

- Electronics Engineering, Digital Electronics
- Drafting Technology, Computer Aided Design and Drafting, Mechanical Drafting
- Architecture Technology/Environmental Design, Architectural Graphics
- Computer Engineering Technology, Electronics/Computer Technology
- Engineering Technology
- Engineering, Pre-Engineering, Engineering Graphics, Rapid Prototyping



The world's future will be shaped by ideas that are developed by those working in the Engineering and Architecture industry. Do you want to play a role in helping to create the world of tomorrow? If you answered yes, then consider a career in this field. Jobs in this industry include CAD/CAM technicians, software engineers, architects, surveyors, and mechanical drafting. Check out our programs in Architecture, Drafting Technology and Engineering Technology.

## ARCHITECTURE

### Architectural Graphics (N) NCE787

Required Courses (9 units) - 3 courses

Certificate Course Requirements	Units
ARE-24 Architectural Drafting	3
ENE-21 Drafting	3
ENE-30 Computer-Aided Drafting (CAD)	3

### Pre-Engineering (N)

Associate of Science Degree\*

NAS763/CSUGE NAS764/IGETC NAS765

Required Courses (24-26 units) - See College catalog for degree requirements.

Degree Course Requirements	Units
MAT-1A Calculus I	4
MAT-1B Calculus II	4
PHY-4A Mechanics	4
<b>Choose one of the following:</b>	
PHY-4B Electricity and Magnetism <b>OR</b> PHY-4C Heat, Light and Waves	4
<b>Elective Courses (8-10 units)</b>	
CHE-1A General Chemistry, I	5
CHE-1B General Chemistry, II	5
MAT-1C Calculus III	4
PHY-4B Electricity and Magnetism (if not used above) <b>OR</b> PHY-4C Heat, Light and Waves (if not used above)	4

\*Associate of Science Degree

The Associate of Science Degree in Pre-Engineering will be awarded upon completion of the degree requirements including Intersegmental General Education Transfer Curriculum (IGETC) or California State University General Education (CSUGE) or RCCD General Education requirements.

## DRAFTING TECHNOLOGY

### Drafting Technology (N)

NAS539/NAS539B/NAS539C/NCE539

Required Courses (25-27 units) - 9 courses

Certificate Course Requirements	Units
DFT/ENE-21 Drafting	3
DFT/ENE-22 Engineering Drawing	3
DFT/ENE-28 Technical Design	3
DFT/ENE-30 Computer Aided Drafting (CAD)	3
DFT/ENE-42 SolidWorks I	3
DFT/ENE-51 Blueprint Reading	2
DFT/ENE-60 Math for Engineering Technology <b>OR</b> MAT-36 Trigonometry	3 4
ENE-52 Geometric Dimensioning and Tolerancing	2
Electives (Choose from list below)	3-4
<b>Electives (3-4 units)</b>	
DFT/ENE-23 Descriptive Geometry	3
DFT/ARE-24 Architectural Drafting	3
DFT/ELE/ENE-27 Technical Communications	3
DFT/ENE-42B SolidWorks II	3
MAN-56 CNC Machine Set-Up and Operation	4

Moreno Valley College (M)

Norco College (N)

Riverside City College (R)

More than one college



## ENGINEERING TECHNOLOGY

### 3D Mechanical Drafting (N) NCE863

Required Courses (9 units) - 3 courses

Certificate Course Requirements	Units
ENE-21 Drafting	3
ENE-42 SolidWorks I	3
ENE-42B SolidWorks II	3

### Engineering Graphics (N) NCE796

Required Courses (9 units) - 3 courses

Certificate Course Requirements	Units
DFT/ENE-21 Drafting	3
DFT/ENE-30 Computer-Aided Drafting (CAD)	3
<b>Select one:</b>	<b>Units</b>
ELE/ENE-27 Technical Communications <b>OR</b> ENE-41 Engineering Graphics	3







# HEALTH SCIENCE and MEDICAL TECHNOLOGY





## Ready to...

- Care for people who are sick and suffering?
- Research and perform experiments using the latest technology?
- Collect data in order to better understand a disease or treatment?
- Assist doctors and nurses with their daily activities?



Moreno Valley College's Anthony Carranza didn't give up when his military career was cut short by a debilitating back injury.

Today, Carranza is preparing to become a certified dental hygienist and enter a profession that pays an average salary of more than \$90,000 in the Inland Empire.

*"It was very affordable and I'm leaving without any debt," says Carranza. "The services for Veterans are beyond belief, and I have a good career to look forward to. This has exceeded my expectations by far."*

- Anthony Carranza  
MVC student

### Types of Careers

- Registered Nurses
- Medical Assistants
- Dental Assistants
- Massage Therapists
- Medical Records Technicians
- Dental Hygienists
- Opticians
- Veterinary Technologists and Technicians
- Medical Transcriptionists

### Salary Snapshot

- Registered Nurses: \$47.46
- Medical Assistants: \$15.23
- Dental Assistants: \$15.67
- Massage Therapists: \$15.81
- Medical Records Technicians: \$22.43
- Dental Hygienists: \$45.39
- Opticians: \$17.55
- Veterinary Technologists and Technicians: \$14.73
- Medical Transcriptionists: \$17.32

### Industry Sector Pathways

- Alcohol/Drug Studies, Dual Diagnosis
- Athletic Training
- Dance Instructor
- Dental Assisting, Dental Hygiene
- Kinesiology: Coaching Professionals
- Kinesiology: Fitness/Recreation Professionals
- Medical Assisting, Medical Transcription
- Medical Front Office, Coding/Billing, Electronic Records
- Nursing Assistant, Home Health Aide
- Nursing Specialty: Acute Care Technician, Mobile Intensive Care, Critical Care
- Nursing: LVN
- Nursing: Registered Nurse, Associate Degree Nursing (ADN)
- Pharmacy Technician
- Phlebotomy
- Pilates Instructor
- Psychiatric Technology
- Radiologic Technology, Sonography
- Respiratory Therapy/Care
- Sports Medicine



Healthcare is one of the fastest growing career fields. Surprisingly, doctors and nurses comprise less than 40% of healthcare professionals, while allied health professionals make up an estimated 60% of the US healthcare workforce. If you have a strong desire to help people, and want a career in one of the most in-demand fields, Health Science and Medical Technology is the industry for you. Jobs in this industry include medical assistant, dental hygienist or assistant, x-ray technician, medical records clerk, medical coder, and health educator. Check out our programs in Dance, Dental Assisting, Dental Hygiene, Emergency Medical Services, Kinesiology/Exercise and Sports Wellness, Medical Assisting, and Nursing.

## DANCE

### Pilates Dance/Conditioning Instructor (R) CE857

Required Courses (17 units) - 9-11 courses

Certificate Course Requirements	Units
DAN-12 Kinesiology for Pilates Instructors/Dancers	3
DAN-13 Pilates Methodology	2
DAN-14 Internship in Pilates Education and Teaching	4
DAN-D46 Pilates Mat Work	1
DAN-D48 Reformer Technique	1
DAN-D49 Pilates, Intermediate	1
DAN-D50 Pilates for Dancers	1
DAN-D51 Pilates, Advanced	1
Electives (Select 3 units from one emphasis below)	3
Dance/Athletes Emphasis (3 units):	Units
DAN-D21 Ballet, Beginning	1
DAN-D22 Ballet, Intermediate	1
DAN-D32 Jazz, Beginning	1
DAN-D33 Jazz, Intermediate	1
DAN-D37 Modern Dance, Beginning	1
DAN-D38 Modern Dance, Intermediate	1
KIN-16 Introduction to Athletic Training	3
KIN-43 Personal Training	3

General Lifestyle Management Emphasis (3 units):	Units
KIN-4 Nutrition	3
KIN-35 Foundation for Fitness and Wellness	3
KIN-36 Wellness: Lifestyle Choices	3
KIN-38 Stress Management	3





## DENTAL ASSISTING

### Dental Assistant (M)

MAS621/MAS621B/MAS621C/MCE621

Required Courses (32.5 units) - 13 courses

*Please note that separate application and additional requirements may be needed*

Certificate Course Requirements	Units
<b>FALL</b>	
DEA-10 Introduction to Dental Assisting and Chairside Assisting	4.5
DEA-20 Infection Control for Dental Assistants	2
DEA-21 Introduction to Radiology for Dental Assistants	2.5
DEA-22 Introduction to Supervised Externships	1.5
DEA-23 Introduction to Dental Sciences	3
DEA-24 Dental Materials for the Dental Assistant	2
<b>WINTER</b>	
DEA-30 Intermediate Chairside Dental Assisting	2
DEA-31 Radiology for Dental Assistants	1
DEA-32 Intermediate Supervised Externships	1
<b>SPRING</b>	
DEA-40A Advanced Chairside Surgical Dental Assistant	3.5
DEA-40B Advanced Chairside Orthodontic Dental Assistant	2
DEA-40C Advanced Chairside Restorative Dental Assistant	6
DEA-41 Dental Office Procedures	1.5



- Moreno Valley College (M)
- Norco College (N)
- Riverside City College (R)
- More than one college



## DENTAL HYGIENE

### Dental Hygiene (M)

Associate of Science Degree\*

MAS724/MAS724B/MAS724C

Required Courses (61.5 units) - See College catalog for degree requirements.

Please note that separate application and additional requirements may be needed

Degree Course Requirements	Units
<b>FALL</b>	
DEH-10A Pre-Clinic Dental Hygiene #1	2.5
DEH-11 Principles of Dental Hygiene	2
DEH-12A Principles of Oral Radiology	1
DEH-12B Oral Radiology Laboratory	1
DEH-13 Infection Control in Dentistry	1
DEH-14 Systems Analysis of Dental Anatomy Morphology, Histology, Embryology	3
DEH-15 Head and Neck Anatomy	2
DEH-16 Preventive Dentistry	1.5
DEH-17 General Pathology	2
<b>WINTER INTERSESSION</b>	
DEH-10B Pre-Clinic Dental Hygiene #2	1
DEH-19 Pain Control	2.5
<b>SPRING</b>	
DEH-20A Clinical Dental Hygiene #1	3
DEH-21 Clinical Seminar #1	1
DEH-22 Oral Radiology Interpretation	1
DEH-23 Introduction to Periodontology	2
DEH-24 Ethics	1
DEH-25 Medical and Dental Emergencies	1
DEH-26 Dental Treatment of Geriatric and Medically Compromised	2
DEH-27 Oral Pathology	2.5
DEH-28 Basic and Applied Pharmacology	2

<b>SUMMER</b>	
DEH-20B Clinical Dental Hygiene #2	1
<b>FALL</b>	
DEH-30A Clinical Dental Hygiene #3	3.5
DEH-31 Clinical Seminar #2	1
DEH-32 Dental Materials	3
DEH-33 Periodontology	1
DEH-34 Cultural Diversity in Healthcare	1
DEH-35 Community Dental Health Education Practicum #1	1
DEH-36 Research Methodology	2
DEH-37 Nutrition in Dentistry	1
<b>WINTER INTERSESSION</b>	
DEH-30B Clinical Dental Hygiene #4	1
<b>SPRING</b>	
DEH-40 Clinical Dental Hygiene #5	4
DEH-41 Clinical Seminar #3	1
DEH-42 Practice Management and Jurisprudence	2
DEH-43 Advanced Periodontology	1
DEH-44 Community Dental Health Education #2	1
DEH-45 Community Dental Health Education Practicum #2	1
DEH-46 Advanced Topics in Dental Hygiene	1

\*Associate of Science Degree  
The Associate of Science Degree in Dental Hygiene will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the catalog.



## EMERGENCY MEDICAL SERVICES

### Emergency Medical Technician (M) MCE935

Required Courses (8.5 units) - 2 courses

Certificate Course Requirements	Units
EMS-50 Emergency Medical Technician	7
EMS-51 Emergency Medical Services-Basic Clinical/Field	1.5

### Paramedic (M) MAS585/MAS585B/MAS585C/MCE585

Required Courses (49.5 units) - 12 courses

Certificate Course Requirements	Units
EMS-60 Patient Assessment and Airway Management	4.5
EMS-61 Introduction to Medical Pathophysiology	3
EMS-62 Emergency Pharmacology	4
EMS-63 Cardiology	4
EMS-70 Trauma Management	3.5
EMS-71 Clinical Medical Specialty I	3
EMS-80 Medical Emergencies	4.5
EMS-81 Special Populations	4
EMS-82 Special Topics	3
EMS-83 Clinical Medical Specialty II	3
EMS-90 Assessment Based Management	3
EMS-91 Paramedic Field Internship	10

## KINESIOLOGY/ EXERCISE, SPORTS and WELLNESS

### Athletic Training Emphasis (R) AS597/AS597B/AS597C/CE597

Required Courses (29 units) - 11 courses

Certificate Course Requirements	Units
KIN-4 Nutrition	3
KIN-10 Introduction to Physical Education	3
KIN-12 Sport Psychology	3
KIN-14 Athletic and Fitness Organization and Administration	3
KIN-16 Introduction to Athletic Training	3
KIN-30 First Aid and CPR	3
KIN-35 Foundations for Fitness and Wellness	3
Electives List A	4
Electives List B	4
<b>Elective List A (4 units)</b>	
KIN-17 Athletic Training, Fall Sports, Upper Extremity	2
KIN-18 Athletic Training, Spring Sports, Lower Extremity	2
KIN-19 Athletic Training, Fall Sports, Head, Neck, and Spine	2
KIN-20 Athletic Training, Spring Sports, General Medicine	2
<b>Elective List B (4 units)</b>	
KIN-21A Athletic Training Applications	2
KIN-21B Athletic Training Applications	2





## Coaching Emphasis (R) AS599/AS599B/AS599C/CE599

Required Courses (24 units) - 8 courses

Certificate Course Requirements	Units
KIN-4 Nutrition	3
KIN-10 Introduction to Physical Education	3
KIN-12 Sport Psychology	3
KIN-14 Athletic and Fitness Organization and Administration	3
KIN-16 Introduction to Athletic Training	3
KIN-30 First Aid and CPR	3
KIN-35 Foundations for Fitness and Wellness	3
Electives	3
<b>Elective Courses (3 units)</b>	
KIN-24 Sports Officiating, Fall Sports	3
KIN-25 Sports Officiating, Spring Sports	3
KIN-26 Foundations of Coaching	3
KIN-27 Football Theory	3
KIN-28 Basketball Theory	3
KIN-29 Soccer Theory	3
KIN-33 Baseball Theory	3
KIN-34 Softball Theory	3

## Fitness Professions Emphasis (R)

AS595/AS595B/AS595C/CE595

Required Courses (24-25 units) - 8 courses

Certificate Course Requirements	Units
KIN-4 Nutrition	3
KIN-10 Introduction to Physical Education	3
KIN-12 Sport Psychology	3
KIN-14 Athletic and Fitness Organization and Administration	3
KIN-16 Introduction to Athletic Training	3
KIN-30 First Aid and CPR	3
KIN-35 Foundations for Fitness and Wellness	3
Electives	3-4
<b>Elective Courses (3-4 units)</b>	
KIN-42 Lifeguard and Water Safety Instructor Certification	4
KIN-43 Personal Training	3
KIN-44 Yoga Instructor Training	3
KIN-45 Group Fitness Instructor	3





## MEDICAL ASSISTING

### Administrative/Clinical Medical Assisting (M) MAS718/MAS718B/MAS718C/MCE718

Required Courses (30 units) - 11 courses

Certificate Course Requirements	Units
BIO-45 Survey of Human Anatomy and Physiology	3
MDA-10 Medical Terminology	3
MDA-11 Medical Documentation and Terminology	2
MDA-50 Medical Assisting Core	2
MDA-54A Clinical Medical Assisting I	2
MDA-54B Clinical Medical Assisting II	4
MDA-59 Medical Office Procedures	3.5
MDA-60 Survey of Human Diseases	2
MDA-61 Pharmacology for Medical Office Personnel	2
MDA-100 Clinical Externship	3.5
<b>Choose one of the following:</b>	
CAT/CIS-3 Computer Applications for Business	3
CAT/CIS-80 Word Processing: Microsoft Word for Windows	3
CIS-1A Introduction of Computer Information Systems	3



### Medical Transcription (M) MAS701/MAS701B/MAS701C/MCE701

Required Courses (26 units) - 8-9 courses

Certificate Course Requirements	Units
BIO-45 Survey of Human Anatomy and Physiology (Formerly AMY-10)	3
CAT-30 Business English	3
MDA-1A Medical Terminology IA	3
MDA-1B Medical Terminology IB	3
MDA-58A Medical Transcription	5
Electives	9
<b>Electives (9 units)</b>	
BUS/CAT/CIS-3 Computer Applications for Business	3
CAT-50 Keyboarding and Document Processing	3
CAT/CIS-80 Word Processing: Microsoft Word for Windows	3
MDA-58B Advanced Medical Transcription	3
MDA-60 Survey of Human Diseases	2
MDA-61 Pharmacology for Medical Office Personnel	2

## NURSING

### Critical Care Nurse (R) CE581

Required Courses (5 units) - 1 course

Certificate Course Requirements	Units
NXN-81 Critical Care Nurse	5

### Nursing Assistant (R) CE584

Required Courses (6-9.5 units) - 1-2 courses

Certificate Course Requirements	Units
HET-80 Nursing Assistant Training Program (NATP)	6
<b>OR</b>	
NRN-11 Foundations of Nursing Practice Across the Lifespan	8.5
<b>AND</b>	
NRN-11A Nursing Learning Laboratory	.5
<b>OR</b>	
NVN-52 Introductory Concepts of Vocational Nursing - Nursing Fundamentals	9.5





## Registered Nursing Program (R)

Associate of Science Degree\*

AS921/AS921B/AS921C

**Required Courses (73-74 units)** - See College catalog for degree requirements.

Please note that separate application and additional requirements may be needed

Degree Course Requirements	Units
BIO-50A Anatomy and Physiology I	4
BIO-50B Anatomy and Physiology II	4
BIO-55 Microbiology	4
COM-1/1H Public Speaking <b>OR</b> COM-9/9H Interpersonal Communication	3
MAT-12/12H Statistics <b>OR</b> PSY/SOC-48 Statistics for the Behavioral Sciences	4 3
NRN-11 Foundations of Nursing Practice Across the Lifespan	8.5
NRN-11A Nursing Learning Laboratory	.5
NRN-12 Acute and Chronic Medical-Surgical Nursing Across the Lifespan and Maternity Nursing	8.5
NRN-12A Nursing Learning Laboratory	.5
NRN-14 Health Promotion and Wellness Across the Lifespan	3
NRN-21 Acute Adult Medical-Surgical and Mental Health Nursing	8.5
NRN-21A Nursing Learning Laboratory	.5
NRN-22 Advanced Medical-Surgical Nursing Across the Lifespan and Acute Pediatrics	8.5
NRN-22A Nursing Learning Laboratory	.5
PSY-9 Developmental Psychology	3
SOC-1/1H Introduction to Sociology <b>OR</b> ANT-2/2H Cultural Anthropology <b>OR</b> ENG-1A/1AH English Composition	3 3 4
Electives (choose from options below)	6
<b>Electives (6 units)</b>	<b>Units</b>
American Institutions	3
Humanities Elective	3

\*Associate of Science Degree

The Associate of Science Degree in the Registered Nursing Program will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.



## Vocational Nursing (R)

AS588/AS588B/AS588C/CE588

**Required Courses (51 units) - 11 courses**

Certificate Course Requirements	Units
BIO-45 Survey of Human Anatomy and Physiology	3
NVN-52 Introductory Concepts of Vocational Nursing - Nursing Fundamentals	9.5
NVN-55A Vocational Nursing Practice and Nutrition Across the Lifespan	3
NVN-55B Principles of Pathophysiology	2
NVN-60 Intermediate Vocational Nursing Foundations - Nursing Process/Communication	1
NVN-61 Intermediate Concepts of Vocational Nursing - Care of the Family	6
NVN-62 Intermediate Concepts of Vocational Nursing - Medical/Surgical	12
NVN-63 Intermediate Concepts of Vocational Nursing - Mental Health	3
NVN-70 Advanced Vocational Nursing Foundations - Role Transition	1
NVN-71 Advanced Concepts of Vocational Nursing - Medical/Surgical	7.5
PSY-9 Developmental Psychology	3



# HOSPITALITY, TOURISM, and RECREATION





## Ready to...

- Work with culturally diverse people from around the world?
- Provide services to customers and tourists?
- Foster relationships with clients and be a “people person”?



*“After culinary school I went to Europe for six months and came back to work for the Ritz Carlton in Rancho Mirage, where I was promoted three times. I came across another promotional opportunity to become a sous chef at the Sheraton Hotel in Pomona where I oversee restaurant operations and the six-acre farm. I truly appreciate the support I received from the RCC Culinary Academy chefs and from the Employment Placement office. I credit my success to them.”*

- Kevin D. Ha  
Sous Chef at the Sheraton Fairplex Hotel and Conference Center  
RCC Culinary graduate

### Types of Careers

- Food Service Managers
- Chefs and Head Cooks
- Meeting, Convention, and Event Planners
- Dietetic Technicians
- Tour Guides
- Travel Agents
- Concierges

### Salary Snapshot

- Food Service Managers: \$20.65
- Chefs and Head Cooks: \$20.19
- Meeting, Convention, and Event Planners: \$22.78
- Dietetic Technicians: \$15.27
- Tour Guides: \$14.99
- Travel Agents: \$22.21
- Concierges: \$14.54

### Industry Sector Pathways

- Culinary Arts, Restaurant Service, Food Preparation
- Golf Management
- Management: Culinary, Hospitality, Hotel, Restaurant
- Nutrition and Food, Dietetics
- Retail Management
- Retail Management, Retail Management - Western Association of Food Chains (WAFC)
- Viticulture, Enology and Winery Technology



California is a top destination for people from around the globe. If you have a passion for food, travel or nutrition, look into the many options available in Hospitality, Tourism and Recreation. Jobs in this industry include chefs and head cooks, as well as food service managers and event planners. Check out our program in Culinary Arts.

## CULINARY ARTS

### Baking and Pastry (R)

AS909/AS909B/AS909/CE909

Please note that separate application and additional requirements may be needed

Required Courses (25 units) - 5 courses

Certificate Course Requirements	Units
CUL-46 Fundamentals of Baking and Pastry	8.5
CUL-47 Advance Baking and Pastry	8.5
CUL-50 ServSafe Food Safe	2
KIN-4 Nutrition	3
MAG-56 Human Resources Management	3

### Culinary Arts (R)

AS561/AS561B/AS561C/CE561

Please note that separate application and additional requirements may be needed

Required Courses (32 units) - 6 courses

Certificate Course Requirements	Units
CUL-36 Introduction to Culinary Arts	8
CUL-37 Intermediate Culinary Arts	8
CUL-38 Advance Culinary Arts	8
KIN-4 Nutrition	3
MAG-56 Human Resources Management	3
Electives (choose from list below)	2
Electives (2 units)	Units
CUL-20 Fundamentals of Baking	2
CUL-22 Cake Decorating	2

- Moreno Valley College (M)
- Norco College (N)
- Riverside City College (R)
- More than one college

## CULINARY ARTS NONCREDIT

### Food Service Career and Certification Preparation Certificate of Completion (R)

CC8025

Required Courses (240 hours) - 8 courses

Certificate Course Requirements	Hours
CUL-824 The Art of Garde Manager	30
CUL-825 Menu Planning	30
CUL-826 Food Cost Accounting	30
CUL-827 Culinary Purchasing and Receiving	30
CUL-828A Culinary Food Preparation I	30
CUL-828B Culinary Food Preparation II	30
CUL-842 International Cuisine	30
CUL-850 ServeSafe Food Safety	30

### Math Skills for the Professional Baker (R)

CC8026

Required Courses (48 hours) - 4 courses

Certificate Course Requirements	Hours
CUL-875 Introduction to Math for Baking Professionals	12
CUL-876 Introduction to Cost Control for Professional Bakers	12
CUL-877 Baker's Percentages and Recipe Conversion	12
CUL-878 Cost Control for Baking and Pastry	12



# INFORMATION and COMMUNICATION TECHNOLOGIES





## Ready to...

- Work on a team of professionals to develop cutting-edge products and solutions?
- Learn job skills that are transferable to almost any location and industry?
- Troubleshoot a variety of software and hardware problems?



Saem Harrison is an Information Security and Cyber Defense student who has acquired five certificates in the field of Computer and Information Security. She started at RCC about a year and a half ago, after a series of life-changing events. Saem is now working at RCC as the Cyber Security Assistant for Professor Skip Berry.

*"I started taking classes through the Information Security and Cyber Defense program at RCC. My professor, Skip Berry, blew me away with his inspirational enthusiasm. I admire the lengths he is willing to go in order to assist students and how he does what it takes to make it possible so they will succeed. That drives me to want to be the same. Now, I've secured a job as a Cyber Security assistant professor at RCC and I could not be happier."*

- Saem Harrison

### Types of Careers

- User Support Specialists
- Systems Administrators
- Network Support Specialists
- Web Developers (In Arts)
- Computer Programmers
- Database Administrators
- Electro-Mechanical Technicians (also in Engineering, recommend Engineering)
- Multimedia Artists and Animators

### Salary Snapshot

- User Support Specialists: \$26.08
- Systems Administrators: \$38.44
- Network Support Specialists: \$27.99
- Web Developers (In Arts): \$24.48
- Computer Programmers: \$40.03
- Database Administrators: \$46.78
- Electro-Mechanical Technicians: (also in Engineering, recommend Engineering): \$30.99
- Multimedia Artists and Animators: \$16.02

### Industry Sector Pathways

- Web Design/Development
- Microsoft Certified Systems Engineer (MSCE)
- Communication Technology: Sound, Wireless, Electronic
- Computer Information Systems, Software/Computer Applications
- Computer Programming, C++, Java
- Computer Science
- Database Design/Management, MIS, Systems Development, UNIX, MYSQL
- Hardware Specialist, Computer Maintenance, Help Desk, IT Technician
- Information Security, Cyber Security, Computer Forensics
- Information/Computer Technology/Literacy
- Internet/Web Authoring, E-Commerce, Mobile Applications
- Networking/Computer Support, CISCO: CCNA and CCNP, A+, N+



Computers are everywhere, both in our personal and professional lives. People use their computers or smartphones to access mobile apps every day. Someone has to know how to program the computers so they know what to do; network multiple computers so they work together; design new software; and even repair computers. You could be one of these in-demand people within the Information and Communication Technologies industry. Jobs in the industry include computer programmers, network administrators, computer support specialists, cyber security, and computer repair technicians. Check out our programs in Computer Applications and Office Technology, and Computer Information Systems.

## COMPUTER APPLICATIONS and OFFICE TECHNOLOGY

### Administrative Office Professional (R) CE637

Required Courses (13.5 units) - 5 courses

Certificate Course Requirements	Units
BUS/CAT/CIS-3 Computer Applications for Business	3
CAT-31 Business Communications	3
CAT-61 Professional Office Procedures	3
CAT-62 Records Management	3
CAT/CIS-98A Introduction to Excel	1.5

### Business Information Worker (NR) NAS522/NAS522B/NAS522C/NCE522 CE522

Required Courses (19 units) - 8 courses

Certificate Course Requirements	Units
CAT-1A Business Etiquette	1
CAT/CIS/BUS-3 Computer Applications for Business	3
CAT-31 Business Communications	3
CAT-51 Intermediate Typewriting/Document Formatting	3
CAT/CIS-90 Microsoft Outlook	3
CAT-93 Computers for Beginners	3
CAT/CIS-98A Introduction to Excel	1.5
CAT/CIS-98B Advanced Excel	1.5



### Executive Office Management (R) AS639/AS639B/AS639C/CE639

Required Courses (34 units) - 13 courses

Certificate Course Requirements	Units
CAT-1A Business Etiquette	1
CAT/CIS/BUS-3 Computer Applications for Business	3
CAT-30 Business English	3
CAT-31 Business Communications	3
CAT-51 Intermediate Typewriting/Document Formatting	3
CAT/ACC-55 Applied Accounting/Bookkeeping	3
CAT-61 Professional Office Procedures	3
CAT-62 Records Management	3
CAT/CIS-80 Word Processing: Microsoft Word for Windows <b>OR</b> CAT/CIS-84 Word Processing: WordPerfect for Windows	3
CAT/CIS-90 Microsoft Outlook	3
CAT/CIS-98A Introduction to Excel	1.5
CAT/CIS-98B Advanced Excel	1.5
MAG-44 Principles of Management	3



## Executive Office Professional (R) CE635

Required Courses (13.5 units) - 5 courses

Certificate Course Requirements	Units
CAT/ACC-55 Applied Accounting/Bookkeeping	3
CAT/CIS-80 Word Processing: Microsoft Word for Windows	3
CAT/CIS-90 Microsoft Outlook	3
CAT/CIS-98B Advanced Excel	1.5
MAG-44 Principles of Management	3

## Legal Administrative Professional (R) CE611

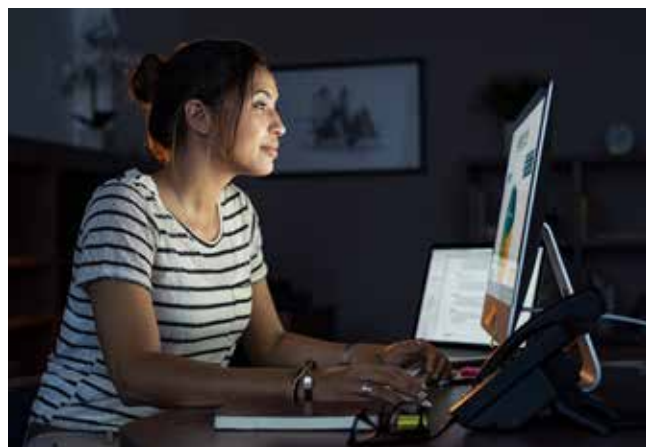
Required Courses (12 units) - 4 courses

Certificate Course Requirements	Units
CAT-36A Legal Office Procedures I	3
CAT-36B Legal Office Procedures II	3
CAT-37 Legal Terminology	3
CAT-38 Legal Word Processing and Forms	3

## Office Assistant (R) CE633

Required Courses (10 units) - 4 courses

Certificate Course Requirements	Units
CAT-1A Business Etiquette	1
CAT-30 Business English	3
CAT-51 Intermediate Typewriting/Document Formatting	3
CAT/CIS-93 Computers for Beginners	3



## COMPUTER APPLICATIONS and OFFICE TECHNOLOGY NONCREDIT

### Business Skills - MOSPrep - Microsoft Office Specialist (MR) MCC8001/CC8001

Required Courses (54 hours) - 4 courses

Certificate Course Requirements	Hours
CAT-841 MOSPrep: Microsoft Office Word-Expert Exam Preparation	18
CAT-842 MOSPrep: Microsoft Office Excel Expert Exam Preparation	18
CAT-843 MOSPrep: Microsoft Office PowerPoint Core Exam Preparation	9
CAT-844 MOSPrep: Microsoft Office Access Core Exam Preparation <b>OR</b> CAT-845 MOSPrep: Microsoft Office Outlook Core Exam Preparation	9

## COMPUTER INFORMATION SYSTEMS

### Amazon Web Services (AWS) Cloud Computing (R) CE957

Required Courses (23 units) - 6 courses

Certificate Course Requirements	Units
CIS-25 Information and Communication Technology Essentials	4
CIS-26A Cisco Networking Academy 1A	4
CIS-26B Cisco Networking Academy 1B	4
CIS-49A AWS Academy Cloud Foundations	4
CIS-49B AWS Academy Cloud Architecting	4
Electives	3
<b>Select another (3 units) from the following:</b>	
CIS-12 PHP Dynamic Web Site Programming	3
CIS-21A Linux Operating System Administration	3





## Computer Applications (M)

MAS726/AS726B/AS726C/MCE726

Required Courses (31.5-32.5 units) - 12 courses

Certificate Course Requirements	Units
CAT-31 Business Communications <b>OR</b> BUS-22 Management Communications <b>OR</b> BUS-24 Business Communications	3
CIS-1A Introduction to Computer Information Systems	3
CIS-1B Advanced Concepts in Computer Information Systems	3
CIS/CSC-5 Programming Concepts and Methodology I: C++ <b>OR</b> CIS/CSC-28A MS Access Programming	4 3
CIS/CSC-21 Introduction to Operating Systems	3
CIS-95A Introduction to the Internet	1.5
Electives 1 (Choose from list below)	7.5
Electives 2 (Choose from list below)	7.5
Electives 1 (7.5 units)	Units
CIS/CSC-2 Fundamentals of Systems Analysis	3
CIS-23 Software and End User Support	3
CIS/CSC-25 Information and Communication Technology Essentials	3
CIS/CSC-61 Introduction to Database Theory	3
CIS/CAT-80 Word Processing: Microsoft Word for Windows	3
CIS/CAT-84 Word Processing: WordPerfect for Windows	3
CIS/CAT-98B Advanced Excel	1.5

Electives 2 (7.5 units)	Units
CIS/CSC-12 PHP Dynamic Web Site Programming	3
CIS/CSC-14A Web Programming: Java Script	3
CIS-14B Web Programming: Active Server Pages	3
CIS/CAT-54A Introduction to Flash	3
CIS-56A Designing Web Graphics	3
CIS-72A Introduction to Web Page Creation	1.5
CIS-72B Intermediate Web Page Creation using Cascading Style Sheets (CSS)	1.5
CIS-76A Introduction to Microsoft Expression Web	3
CIS-76B Introduction to DreamWeaver	3
CIS/CAT-78A Introduction to Adobe PhotoShop	3
CIS/CAT-79 Introduction to Adobe Illustrator	3
CIS/CAT-81 Introduction to Desktop Publishing/Adobe InDesign	3

- Moreno Valley College (M) ■
- Norco College (N) ■
- Riverside City College (R) ■
- More than one college ■





## Computer Programming (MNR)

MAS728/MAS728B/MAS728C/MCE728

NAS728/NAS728B/NAS728C/NCE728

AS728/AS728B/AS728C/CE728

Required Courses (26.5 units) - 9 courses

Certificate Course Requirements	Units
CIS-1A Introduction to Computer Information Systems	3
CIS/CSC-2 Fundamentals of Systems Analysis	3
CIS/CSC-5 Programming Concepts and Methodology I: C++	4
CIS/CSC-21 Introduction to Operating Systems	3
CIS-72A Introduction to Web Page Creation	1.5
Electives From Group 1	6
Electives From Group 2	6
<b>Electives - Group 1 (6 units)</b>	
CIS/CSC-12 PHP Dynamic Web Site Programming	3
CIS/CSC-14A Web Programming: JavaScript	3
CIS-14B Web Programming: Active Server Pages	3
CIS/CSC-17A Programming Concepts and Methodology II: C++	3
CIS/CSC-18A Java Programming: Objects	3
<b>Electives - Group 2 (6 units)</b>	
CIS/CSC-11 Computer Architecture and Organization: Assembly	3
CIS/CSC-17B C++ Programming: Advanced Objects	3
CIS/CSC-17C C++ Programming: Data Structures	3
CIS/CSC-18B Java Programming: Advanced Objects	3
CIS/CSC-18C Java Programming: Data Structures	3

## C++ Programming (NR)

NCE803/CE741

Required Courses (13 units) - 4 courses

Certificate Course Requirements	Units
CIS/CSC-5 Programming Concepts and Methodology I: C++	4
CIS/CSC-17A Programming Concepts and Methodology II: C++	3
CIS/CSC-17B C++ Programming: Advanced Objects	3
CIS/CSC-17C C++ Programming: Data Structures	3

## Cisco Networking (R)

CE920

Required Courses (16 units) - 4 courses

Certificate Course Requirements	Units
CIS-26A Cisco Networking Academy 1A	4
CIS-26B Cisco Networking Academy 1B	4
CIS-26C Cisco Networking Academy 1C	4
CIS-26D Cisco Networking Academy 1D	4

## Cyber Defense (R)

Associate of Science Degree\*

AS969/AS969B/AS969C

Required Courses (60-67 units) - See College catalog for degree requirements.

Degree Course Requirements	Units
CIS-21A Linux Operating System Administration	3
CIS-25 Information and Communication Technology Essentials	4
CIS-26A Cisco Networking Academy 1A	4
CIS-26B Cisco Networking Academy 1B	4
CIS-27 Information and Network Security	3
CIS-27A Computer Forensic Fundamentals	3
CIS-27B Introduction to Cybersecurity: Ethical Hacking	3
Electives	4
<b>Electives (4 units)</b>	
CIS-5 Programming Concepts and Methodologies	4
CIS-26F Cisco Networking Security	4

\*Associate of Science Degree

The Associate of Science Degree in Cyber Defense will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.



## Information Assurance Auditing (M) MCE896

Required Courses (18 units) - 6 courses

Certificate Course Requirements	Units
BUS-30 Entrepreneurship	3
CIS-2 Systems Analysis and Design	3
CIS-4 Practical Computer Security	3
CIS-8 Information Systems Auditing	3
CIS-21 Introductions to Operating Systems	3
CIS-22 Systems Auditing	3

## Information Security Certificate and Cyber Defense (R) CE740

Required Courses (20-21 units) - 6 courses

Certificate Course Requirements	Units
CIS/CSC-21A Linux Operating Systems Administration	3
CIS/CSC-25 Information and Communication Technology Essentials	3
CIS-26A Cisco Networking Academy 1A	4
CIS-26B Cisco Networking Academy 1B	4
CIS/CSC-27 Information and Network Security	3
Electives (Choose from the list below)	3-4
<b>Select another 3-4 units from the following:</b>	
CIS-1A Introduction to Computer Information	3
CIS/CSC-5 Programming Concepts and Methodology	4
CIS/CSC-21 Introduction to Operating Systems	3
CIS-26F Cisco Networking Security	4
CIS/CSC-27A Computer Forensics Fundamentals	3

## Information Technology (MR) MCE958/CE958

Required Courses (25-26 units) - 7 courses

Certificate Course Requirements	Units
CIS-1A Introduction to Computer Information Systems	3
CIS/CSC-5 Programming Concepts and Methodology I:C++	4
CIS-25 Information and Communication Technology Essentials	4
CIS-26A Cisco Networking Academy 1A <b>OR</b> CIS-40A Computer Network Fundamentals	4 3
Electives List A	6-7
Electives List B	4
<b>List A (6-7 units)</b>	
BUS-24 Business Communications	3
CIS/CSC-2 Fundamentals of Systems Analysis	3
CIS/CSC-21 Introduction to Operating Systems	3
CIS-26B Cisco Networking Academy 1B <b>OR</b> CIS-40B Routing and Switching Essentials	4 3
CIS-27 Information and Network Security	3
CIS-27A Computer Forensics Fundamentals	3
CIS-27B Introduction to Cybersecurity: Ethical Hacking	3
CIS-61 Introduction to Database Theory	3
<b>List B (4 units)</b>	
MAT-1A Single Variable Calculus I Early Transcendentals	4
MAT-5 Business Calculus	4
MAT-12 Statistics	4

Moreno Valley College (M)

Norco College (N)

Riverside City College (R)

More than one college



## IT Technician Pathway: Cybersecurity Specialist (M) MCE936

Required Courses (15 units) - 5 courses

Certificate Course Requirements	Units
CIS-27 Information and Network Security	3
CIS-27A Computer Forensics Fundamentals	3
CIS-27B Introduction to Cybersecurity: Ethical Hacking	3
CIS-30A Introduction to Python Programming	3
CIS-41A Principles of Cybersecurity Analysis	3

## IT Technician Pathway: IT Systems Specialist (M) MCE937

Required Courses (15 units) - 5 courses

Certificate Course Requirements	Units
CIS-21 Introduction to Operating Systems	3
CIS-27 Information and Network Security	3
CIS-40A Computer Network Fundamentals	3
CIS-40C Installing, Configuring and Administering Microsoft Operating Systems	3
CIS-40D Systems and Network Administration	3

## IT Technician Pathway: IT Systems Support and Sales (MR) MCE905/CE905

Required Courses (15 units) - 5 courses

Certificate Course Requirements	Units
BUS-10 Introduction to Business	3
BUS-24 Business Communications	3
BUS-47 Applied Business and Management Ethics	3
CIS-1A Introduction to Computer Information Systems	3
CIS-25 Information and Communication Technology Essentials	3



## Java Programming (NR) NCE809/CE742

Required Courses (13 units) - 4 courses

Certificate Course Requirements	Units
CIS/CSC-5 Programming Concepts and Methodology I: C++	4
CIS/CSC-18A Java Programming: Objects	3
CIS/CSC-18B Java Programming: Advanced Objects	3
CIS/CSC-18C Java Programming: Data Structures	3

## Python Programming Certificate (M) MCE938

Required Courses (15 units) - 5 courses

Certificate Course Requirements	Units
CIS-30A Introduction to Python Programming	3
CIS-30B Python Programming in Networking	3
CIS-30C Python Programming in Cybersecurity	3
CIS-30D Python Programming for Internet of Things	3
CIS-30E Advanced Python Programming	3

- Moreno Valley College (M)
- Norco College (N)
- Riverside City College (R)
- More than one college



## Webmaster-Web Designer Concentration (MR) MCE933/CE933

Required Courses (17-18 units) - 7 courses

Certificate Course Requirements	Units
ADM-67 Multimedia Animation	3
CIS-56A Designing Web Graphics <b>OR</b> CIS-78A /CAT-78A Introduction to Adobe Photoshop <b>OR</b> ADM-71A Adobe Photoshop for Image Manipulation	3
CIS-72A Introduction to Web Page Creation	1.5
CIS-72B Intermediate Web Page Creation using Cascading Style Sheets	1.5
CIS-76B Introduction to DreamWeaver	3
Electives Choose from the list below	5-6
<b>Concentration Electives (5-6 units)</b>	
ADM-2A Color Systems and File Management <b>OR</b> ADM-62 Typography and Graphic Design <b>OR</b> ADM-74A Web Design	2 3 3
CIS/CAT-79 Introduction to Adobe Illustrator <b>OR</b> ADM-77A Adobe Illustrator for Graphic Art	3

## Webmaster-Web Developer Concentration (MR) MCE934/CE934

Required Courses (18 units) - 7 courses

Certificate Course Requirements	Units
CIS/CSC-12 PHP Dynamic Web Site Programming	3
CIS/CSC-14A Web Programming: Java Script	3
CIS-72A Introduction to Web Page Creation	1.5
CIS-72B Intermediate Web Page Creation using Cascading Style Sheets	1.5
CIS-76B Introduction to DreamWeaver	3
Electives (Choose from the list below)	6
<b>Concentration Electives (6 units)</b>	
CIS/CSC-5 Programming Concepts and Methodology I:C++ <b>OR</b> CIS/CSC-18A Java Programming: Objects <b>OR</b> CIS-30A Introduction to Python Programming	3
CIS-56A Designing Web Graphics <b>OR</b> CIS-78A /CAT-78A Introduction to Adobe Photoshop <b>OR</b> ADM-71A Adobe Photoshop for Image Manipulation	3





## COMPUTER INFORMATION SYSTEMS NONCREDIT

### Coding Prep (MR) MCC8010/CC8010

Required Courses (54 hours) - 6 courses

Certificate Course Requirements	Hours
CIS-834 Historical Perspective: Napier to Torvalds	9
CIS-835 Foundational Approach: Word Problems to Work Flow	9
CIS-836 Computational Tools: Calculators to Spreadsheets	9
CIS-837 Boolean Formulation: Logic to Relationships	9
CIS-838 Pseudo-code and Flowcharts: Descriptive to Visual	9
CIS-839 Tools of the Trade: IDE's to Backup	9

### Computer Maintenance and Security (M) MCC8006

Required Courses (48 hours) - 3 courses

Certificate Course Requirements	Hours
CIS-824A Computer Repairs for Beginners	16
CIS-824B Networking for Home and Small Business	16
CIS-824C Cybersecurity for Beginners	16

### Information Systems: Cyber Skills (R) CC8002

Required Courses (54 hours) - 3 courses

Certificate Course Requirements	Hours
CIS-825 Cyber Skills: Introduction to Cybersecurity	18
CIS-826 Cyber Skills: Introduction to Virtualization	18
CIS-827 Cyber Skills: Introduction to Protocol Analysis	18



### Internet of Things (IOT): Embedded Systems and Microcontrollers (M) MCC8018

Required Courses (48 hours) - 3 courses

Certificate Course Requirements	Hours
CIS-833A Introduction to Microcontroller: Arduino	16
CIS-833B Introduction to Embedded System: Raspberry Pi	16
CIS-833C Designing Internet of Things (IoT)	16

### Introduction to Python Programming (R) CC8003

Required Courses (54 hours) - 3 courses

Certificate Course Requirements	Hours
CIS-830 Introduction to Python Programming: Part 1	18
CIS-831 Introduction to Python Programming: Part 2	18
CIS-832 Introduction to Python Programming: Part 3	18

### Operating Systems and Internet Literacy (M) MCC8008

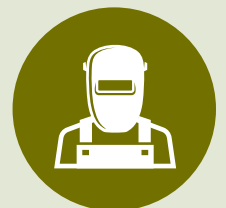
Required Courses (48 hours) - 3 courses

Certificate Course Requirements	Hours
CIS-897A Windows Operating System and Internet Literacy	16
CIS-897B Linux Operating System and Internet Literacy	16
CIS-897C Mac Operating System and Internet Literacy	16

- Moreno Valley College (M)
- Norco College (N)
- Riverside City College (R)
- More than one college



# MANUFACTURING and PRODUCT DEVELOPMENT





## Ready to...

- Work with your head and hands to bring product designs to life?
- Use mechanical skills to build and maintain heavy machinery?
- Learn a practical trade that is in-demand—no matter where you live?



*"When I lost my job in the casino industry, I was unsure of what I wanted to do with my life and decided to enroll in the Welding program at Riverside City College. I learned the trade and earned an internship with California Steel Industries, Inc. Today, I am making over \$85k a year and was able to have my dream wedding and provide for my family."*

- Justin Fagaly  
Welding student  
Internship with California Steel Industries

### Types of Careers

- Machinists
- Industrial Production Managers
- Metal Fabricators and Fitters
- Tool and Die Makers
- Computer Numerically Controlled (CNC) Machine Tool Programmers
- Prepress Technicians
- Model Makers, Metal and Plastic
- Fabric Patternmakers
- Model Makers, Wood

### Salary Snapshot

- Machinists: \$19.26
- Industrial Production Managers: \$47.52
- Metal Fabricators and Fitters: \$16.85
- Tool and Die Makers: \$23.49
- Computer Numerically Controlled (CNC) Machine Tool Programmers: \$29.07
- Prepress Technicians: \$17.39
- Model Makers, Metal and Plastic: \$18.41
- Fabric Patternmakers: \$11.00
- Model Makers, Wood: \$23.17

### Industry Sector Pathways

- CAD/CAM, Computer Numerical Control (CNC)
- Industrial Automation, Supply Chain Technology
- Industrial Maintenance Mechanic, Instrumentation Technology
- Machine Technology, Machine Operator, Basic/Conventional Machining, Tool and Die
- Operations and Production Management
- Quality Assurance
- Welding, SMAW, GTAW, FCAW, Stick, TIG





California produces a wide range of products, from computers to plastics to clothing. Some products are made in large manufacturing plants, and others are made in someone's garage. The Manufacturing and Product Development industry is full of jobs that will turn your skill and creativity into a great career. Jobs in this industry include industrial machinery mechanic, structural metal fabricator, welder, robotics technician, and supply chain technician. Check out our programs in Manufacturing Technology, Supply Chain Technology, and Welding Technology.

## MANUFACTURING TECHNOLOGY

### Apprenticeship: Manufacturing Technician I (N) NCE968

Required Courses (14-16 units) - 4-6 courses

Certificate Course Requirements	Units
APP-450 Apprenticeship Work Experience	4
APP-450 Apprenticeship Work Experience	4
Electives	6-8
<b>Electives (6-8 units)</b>	
ENE-30 Computer Aided Drafting (CAD)	3
ENE-42 SolidWorks I	3
ENE-51 Blueprint Reading	2
ENE-62 Math for Automated Systems	3
MAN-35 Computer Aided Manufacturing	5
MAN-55 Occupational Safety and Health Administration (OSHA)	1
MAN-56 CNC Machine Set-up and Operation	4
MAN-57 CNC Program Writing	3



### Apprenticeship: Manufacturing Technician II (N) NCE967

Required Courses (30-31 units) - 6-8 courses

Certificate Course Requirements	Units
APP-450 Apprenticeship Work Experience	16
Electives	14-15
<b>Electives (14-15 units)</b>	
ENE-30 Computer Aided Drafting (CAD)	3
ENE-42 SolidWorks I	3
ENE-51 Blueprint Reading	2
ENE-60 Math for Engineering Technology <b>OR</b> ENE-62 Math for Automated Systems	3
MAN-35 Computer Aided Manufacturing	5
MAN-36 General Machine Shop and Theory of Machining	4
MAN-55 Occupational Safety and Health Administration (OSHA)	1
MAN-56 CNC Machine Set-up and Operation	4
MAN-57 CNC Program Writing	3

- Moreno Valley College (M)
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- More than one college



## Computer Numerical Control Programming (N) NAS655/NAS655B/NAS655C/NCE655

Required Courses (26-27 units) - 9 courses

Certificate Course Requirements	Units
ENE-30 Computer Aided Drafting (CAD)	3
ENE-42 SolidWorks I	3
ENE-51 Blueprint Reading	2
ENE-52 Geometric Dimensioning and Tolerancing	2
ENE-60 Math for Engineering Technology <b>OR</b> MAT-36 Trigonometry	3 4
MAN-35 Computer-Aided Manufacturing-Mastercam	5
MAN-55 Occupational Safety and Health Administration (OSHA) Standards for General Industry	1
MAN-56 CNC Machine Set-up and Operation	4
MAN-57 CNC Program Writing	3

## Computer Numerical Control (CNC) Operator (N) NCE799

Required Courses (17 units) - 6 courses

Certificate Course Requirements	Units
ENE-42 Solid Works I	3
ENE-51 Blueprint Reading	2
MAN-36 General Machine Shop and Theory of Machining	4
MAN-55/ELE-55 Occupational Safety and Health Administration (OSHA) Standards for General Industry	1
MAN-56 CNC Machine Set-up and Operation	4
MAN-57 CNC Program Writing	3

## Conventional Machine Operator (N) NCE865

Required Courses (10 units) - 4 courses

Certificate Course Requirements	Units
ENE-42 SolidWorks I	3
ENE-51 Blueprint reading	2
MAN-36 General Machine Shop and Theory of Machining	4
MAN-55/ELE-55 OSHA Standards for General Industry	1

## Facility Maintenance (N) NAS771/NAS771B/NAS771C/NCE771

Required Courses (24-25 units) - 9 courses

Certificate Course Requirements	Units
ELE/ENE-27 Technical Communications	3
ELE/CON-66 National Electrical Code	3
ELE/MAN-68 Fundamentals of Maintenance	3
ELE/MAN-69 Fundamentals of Tooling and Test Equipment	2
ELE/MAN-77 Electrical Theory	3
ENE-51 Blueprint Reading	2
ENE-60 Math for Engineering Technology <b>OR</b> MAT-36 Trigonometry	3 4
MAN-55 Occupational Safety and Health Administration (OSHA) Standards for General Industry	2
MAN-60 Hydraulic and Pneumatics Systems	3

## Industrial Automation (N) NAS737/NAS737B/NAS737C/NCE737

Required Courses (23-24 units) - 8 courses

Certificate Course Requirements	Units
ELE-10 Survey of Electronics	4
ELE/ENE-27 Technical Communications	3
ELE/MAN-55 Occupational Safety and Health Administration (OSHA) Standards for General Industry	1
ELE/MAN-64 Programmable Logic Controllers <b>OR</b> ELE/MAN-67 Programmable Logic Controllers Using Siemens	3
ELE-74 Industrial Wiring and Controls	4
ENE-51 Blueprint Reading 2	2
ENE-62 Math for Automation <b>OR</b> MAT-36 Trigonometry	3 4
MAN-60 Hydraulics and Pneumatic Systems	3



## Manufacturing Technician II (N) NAS967/NAS967B/NAS967C/NCE967

Required Courses (30-31 units) - 5-7 courses

Certificate Course Requirements	Units
APP-450 Apprenticeship Work Experience	16
Electives	14-15
<b>Electives (14-15 units)</b>	
ENE-30 Computer Aided Drafting (CAD)	3
ENE-42 SolidWorks I	3
ENE-51 Blueprint Reading	2
ENE-60 Math for Engineering Technology <b>OR</b> ENE-62 Math for Automated Systems	3
MAN-35 Computer Aided Manufacturing	5
MAN-36 General Machine Shop and Theory of Machining	4
MAN-55 Occupational Safety and Health Administration (OSHA)	1
MAN-56 CNC Machine Set-up and Operation	4
MAN-57 CNC Program Writing	3

## MANUFACTURING TECHNOLOGY NONCREDIT

### Computerized Numerical Control Operator (N) NCC8019

Required Courses (216 hours) - 2 courses

Certificate Course Requirements	Hours
MAN-857 CNC Program Writing	108
MAN-856 CNC Machine Set-up and Operation	108

## SUPPLY CHAIN TECHNOLOGY

### Supply Chain Automation (N) NAS924/NAS924B/NAS924C/NCE924

Required Courses (32-33 units) - 10 courses

Certificate Course Requirements	Units
DFT/ENE/ELE-27 Technical Communications	3
DFT/ENE-51 Blueprint Reading	2
ELC/ELE-73/MAN-73 Electric Motors and Transformers	4
ELC/ELE/MAN-74 Industrial Wiring and Controls	4
ELC/ELE/ELC-77 Electrical Theory for Electricians	3
ELE-26 Microcontrollers	3
ELE/MAN-64 Programmable Logic Controllers <b>OR</b> ELE/MAN-67 Programmable Logic Controllers Using Siemens	3
ENE-62 Math for Automated Systems <b>OR</b> MAT-36 Trigonometry	3
MAN/ELE-55 OSHA Standards for General Industry	1
MAN-60 Hydraulic and Pneumatic Systems	3
SCT/SCA-1 Introduction to Automated Warehousing	3

Moreno Valley College (M)

Norco College (N)

Riverside City College (R)

More than one college



## WELDING TECHNOLOGY

### Pipe Welding (R) CE849

Required Courses (15 units) - 5 courses

Certificate Course Requirements	Units
WEL-65B Advanced Shielded Metal Arc Welding	3
WEL-75A Gas Metal Arc Welding	3
WEL-85A American Welding Society/Los Angeles City Welding I	3
WEL-85B American Welding Society/Los Angeles City Welding II	3
WEL-115A SMAW/GMAW Pipe Welding Fundamentals	3

### Stick Welding (SMAW) (R) CE824

Required Courses (9 units) - 3 courses

Certificate Course Requirements	Units
WEL-65A Beginning Shielded Metal Arc Welding	3
WEL-65B Advanced Shielded Metal Arc Welding	3
WEL-85A American Welding Society/Los Angeles City Welding I <b>OR</b> WEL-85B American Welding Society/Los Angeles City Welding II	3

### Tig Welding (GTAW) (R) CE819

Required Courses (6 units) - 2 courses

Certificate Course Requirements	Units
WEL-95A Introduction to Gas Tungsten Arc Welding	3
WEL-95B Advanced Gas Tungsten Arc Welding (GTAW)	3



### Welding Technology (R) AS606/AS606B/AS606C/CE606

Required Courses (28 units) - 10 courses

Certificate Course Requirements	Units
WEL-20 Blueprint Reading for Welders Trades	2
WEL-65A Beginning Shielded Metal Arc Welding	3
WEL-65B Advanced Shielded Metal Arc Welding	3
WEL-75A Gas Metal Arc Welding	3
WEL-75B Flux Cored Arc Welding (FCAW)	3
WEL-85A American Welding Society/Los Angeles City Welding I	3
WEL-95A Introduction to Gas Tungsten Arc Welding	3
WEL-115A SMAW/GMAW Pipe Welding Fundamentals	3
Electives (Choose from list below)	5
<b>Electives (5 units)</b>	
WEL-22 Plate and Structural Steel Layout	2
WEL-34 Metal Joining Processes	2
WEL-85B American Welding Society/Los Angeles City Welding II	3
WEL-95B Advanced Gas Tungsten Arc Welding (GTAW)	3
WEL-200 Welding Work Experience	1-4

### Wire Welding (FCAW, GMAW) (R) CE818

Required Courses (9 units) - 3 courses

Certificate Course Requirements	Units
WEL-75A Gas Metal Arc Welding	3
WEL-75B Flux Cored Arc Welding (FCAW)	3
WEL-85A American Welding Society/Los Angeles City Welding I <b>OR</b> WEL-85B American Welding Society/Los Angeles City Welding II	3

Moreno Valley College (M)

Norco College (N)

Riverside City College (R)

More than one college



MARKETING, SALES,  
and SERVICES





## Ready to...

- Help consumers find the products they are looking for?
- Communicate the value of various goods and services to a wide variety of markets?
- Be a “people person” and engage consumers of diverse backgrounds?



*“Enrolling at Riverside City College after receiving university rejections was my first step to moving forward and proving I could meet the standards a second time around. I enrolled in RCC’s Associate Degree for Transfer (ADT) program, which provided a clear pathway to the Cal States of my choice, giving me the confidence I needed to complete my Business Administration degree with an emphasis in marketing and sales. While working full time, my academic advisors and professors were able to accommodate classes and homework to assure I met my goals without falling behind. I landed an administrative assistant job and realized that the success of a business is attained through sales and the approach to attract those sales and buyers is by marketing.”*

- Lauren Guidry  
RCC Business Student  
Marketing and Sales Emphasis

### Types of Careers

- Customer Service Representatives
- Retail Sales Supervisors
- Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products
- Real Estate Brokers
- Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products
- Public Relations Specialists
- Advertising Sales Agents
- Brokerage Clerks

### Salary Snapshot

- Customer Service Representatives: \$17.45
- Retail Sales Supervisors: \$19.16
- Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products: \$27.65
- Real Estate Brokers: \$36.01
- Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products: \$34.39
- Public Relations Specialists: \$29.24
- Advertising Sales Agents: \$20.33
- Brokerage Clerks: \$26.25

### Industry Sector Pathways

- International Business
- Small Business, Entrepreneurship
- Marketing
- Real Estate
- Real Estate Development
- Real Estate Escrow, Sales



Thanks to the internet, companies sell their products globally. With so many products on the market, companies will need salespeople and marketing to get the job done. If you think you would be good at selling the merits of a product, then you should consider a career in Marketing, Sales and Service. Jobs in this industry include sales managers, marketing directors, insurance sales agents, real estate agents, and advertising executives. Check out our programs in Business Administration – with a concentration in Marketing and Real Estate.

## BUSINESS ADMINISTRATION

### Business Administration - Major Core Requirements\* (MNR)

Certificate Course Requirements	Units
ACC-1A Principles of Accounting I	3
BUS-10/10H Introduction to Business	3
BUS-18A Business Law I	3
BUS-20 Business Mathematics	3
BUS-22 Management Communications <b>OR</b> BUS-24 Business Communications	3
CIS-1A Introduction to Computer Information Systems <b>OR</b> BUS/CIS/CAT-3 Computer Applications for Business	3
Major Concentration Requirements	12



### Business Administration-Marketing (MR)

MAS525/MAS525B/MAS525C/MCE525  
AS525/AS525B/AS525C/CE525

Required Courses (30 units) - 10 courses

Certificate Course Requirements	Units
Business Administration Major Core Requirements*	18
MKT-20 Principles of Marketing	3
<b>Select another 9 units from the following:</b>	
BUS-43 Global Marketing	3
BUS-51 Principles of Electronic-Commerce	3
BUS-80 Principles of Logistics	3
MKT-40 Advertising	3
MKT-41 Techniques of Selling	3
MKT-42 Retail Management	3
MKT-200 Marketing Work Experience	1-4

- Moreno Valley College (M)
- Norco College (N)
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- More than one college



## Business Administration - Real Estate (MNR)

MAS527/MAS527B/MAS527C/MCE527

NAS527/NAS527B/NAS527C/NCE527

AS527/AS527B/AS527C/CE527

Required Courses (30 units) - 10 courses

Certificate Course Requirements	Units
Business Administration Major Core Requirements*	18
<b>Select another 12 units from the following:</b>	
RLE-80 Real Estate Principles	3
RLE-81 Real Estate Practices	3
RLE-82 Legal Aspects of Real Estate	3
RLE-83 Real Estate Finance	3
RLE-84 Real Estate Appraisal	3
RLE-85 Real Estate Economics	3
RLE-86 Escrow Procedures I	3
RLE-200 Real Estate Work Experience	1-4

## Marketing (R)

CE879

Required Courses (15 units) - 5 courses

Certificate Course Requirements	Units
BUS-10/10H Introduction to Business	3
MKT-20 Principles of Marketing	3
MKT-40 Advertising	3
MKT-41 Techniques of Selling <b>OR</b> BUS-43 Global Marketing	3
MKT-42 Retail Management	3



## Real Estate Practice (R)

CE873

Required Courses (15 units) - 5 courses

Certificate Course Requirements	Units
BUS-10/10H Introduction to Business	3
RLE-80 Real Estate Principles	3
RLE-81 Real Estate Practices	3
RLE-82 Legal Aspects of Real Estate	3
RLE-83 Real Estate Finance <b>OR</b> RLE-86 Escrow Procedures I	3

## Real Estate Salesperson and Transaction (N)

NCE854

Required Courses (9 units) - 3 courses

Certificate Course Requirements	Units
RLE-80 Real Estate Principles	3
RLE-81 Real Estate Practices	3
<b>Select 3 units from the following:</b>	
ACC-1A Principles of Accounting I	3
BUS-18A Business Law I	3
RLE-82 Legal Aspects of Real Estate	3
RLE-83 Real Estate Finance	3
RLE-85 Real Estate Economics	3

## Real Estate Salesperson and Transaction (R)

CE869

Required Courses (9 units) - 3 courses

Certificate Course Requirements	Units
RLE-80 Real Estate Principles	3
RLE-81 Real Estate Practices	3
RLE-82 Legal Aspects of Real Estate	3

Moreno Valley College (M)

Norco College (N)

Riverside City College (R)

More than one college





PUBLIC SERVICES





## Ready to...

- Serve your local community?
- Provide support to culturally diverse groups of people at all income levels?
- Make sure the communities in which people live are safe and secure?



*"The Norco College Criminal Justice program revitalized my motivation, passion and drive towards what I love. I am now on the Dean's Honor Roll at the University of California, Irvine, where I am pursuing law school. Without Norco College, I never would have taken the first step."*

- Hunter Felkner  
Norco College Criminal Justice program

### Types of Careers

- Police Patrol Officers
- Emergency Medical Technicians
- Firefighters
- Vocational Counselors
- Municipal Clerks
- Criminal Investigators
- Court Reporters

### Salary Snapshot

- Police Patrol Officers: \$47.04
- Emergency Medical Technicians: \$15.49
- Firefighters: \$30.40
- Vocational Counselors: \$40.29
- Municipal Clerks: \$23.32
- Criminal Investigators: \$49.10
- Court Reporters: \$45.25

### Industry Sector Pathways

- Victim Services
- EMS, EMT, Paramedic
- Administration of Justice/Criminal Justice
- Corrections
- Fire Apparatus Operation
- Fire Inspection, Fire Prevention
- Fire Technology
- Firearms, Laws of Arrest, Investigative Assistant
- Firefighter Academy, Professional Firefighter, Fire Officer Training
- Forensic Specialist, Crime Scene Investigation, Fingerprint Recognition
- Homeland Security
- Paralegal Studies, Legal Assistant
- Peace Officer Academy, Law Enforcement, Police Science, Reserve Officer, Campus Law Enforcement
- Public Safety Dispatch
- Public Works



People who have jobs in the Public Services industry work to make the lives of other people better. Their jobs help all types of people, and work toward giving them a better life in some way. Whether your passion is social work or police work; whether you dream of fighting fires or fighting injustice, a career in public service could be for you. Jobs in this industry include correctional officer, security guard, paramedic, police officer, firefighter, and paralegal. Check out our programs in Administration of Justice, Fire Technology, and Paralegal Studies.

## ADMINISTRATION OF JUSTICE

### Administration of Justice (MR)

MAS504/MAS504B/MAS504C/MCE504  
AS504/AS504B/AS504C/CE504

Required Courses (27 units) - 9 courses

Certificate Course Requirements	Units
ADJ-1 Introduction to the Administration of Justice	3
ADJ-2 Principles and Procedures of the Justice System	3
ADJ-3 Concepts of Criminal Law	3
ADJ-4 Legal Aspects of Evidence	3
ADJ-5 Community Relations	3
Electives (Choose from elective courses in the discipline)	12



### Administration of Justice (M)

Associate Degree for Transfer\*

CSUGE MAS642/IGETC MAS643

Required Courses (60 units) - See College catalog for degree requirements.

Degree Course Requirements	Units
ADJ-1 Introduction to the Administration of Justice	3
ADJ-3 Concepts of Criminal Law	3
Electives from List A	6
Electives from List B	6-8
<b>Electives List A (6 units)</b>	
ADJ-2 Principles and Procedures of the Justice System	3
ADJ-4 Legal Aspects of Evidence	3
ADJ-5 Community Relations	3
ADJ-8 Juvenile Law and Procedures	3
ADJ-12 Introduction to Criminalistics	3
ADJ-13 Criminal Investigation	3
ADJ-20 Introduction to Corrections	3
<b>Electives List B (6-8 units)</b>	
ADJ-15 Narcotics	3
MAT-11 College Algebra	4
MAT-12 Statistics	4
<b>OR</b> PSY-48/SOC-48 Statistics for the Behavioral Sciences	3
SOC-1 Introduction to Sociology	3
PSY-1 Introduction to Psychology	3

\*Associate in Science for Transfer Degree

The Associate in Science in Administration of Justice for Transfer degree will be awarded upon completion of 60 California State University (CSU) transferable units including the above major requirements and the Intersegmental General Education Transfer Curriculum (IGETC) or California State University General Education (SCUGE) requirements with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of "C" or better.



## Administration of Justice (N)

Associate Degree for Transfer\*

CSUGE NAS642/IGETC NAS643

Required Courses (18-19 units) – See College catalog for degree requirements.

Degree Course Requirements	Units
ADJ-1 Introduction to the Administration of Justice	3
ADJ-3 Concepts of Criminal Law	3
List A Choose from the list below	6
List B Choose from the list below	6-7
<b>List A: Choose two courses from below (6 Units)</b>	
ADJ-2 Principles and Procedures of the Justice System	3
ADJ-4 Legal Aspects of Evidence	3
ADJ-5 Community Relations	3
ADJ-8 Juvenile Law and Procedures	3
ADJ-12 Introduction to Criminalistics	3
ADJ-13 Criminal Investigation	3
ADJ-20 Introduction to Corrections	3
<b>List B: Choose two courses from below (6-7 Units)</b>	
Any LIST A course not already used	3
ADJ-9 Law in American Society	3
ADJ-14 Advanced Criminal Investigation	3
ADJ-200 Work Experience	3
MAT-12/12H Statistics/Honors	4
<b>OR</b>	
PSY/SOC-48 Statistics for the Behavioral Sciences	3
POL-1/1H American Politics/Honors	3
PSY-1/1H General Psychology/Honors	3
SOC-1/1H Introduction to Sociology/Honors	3
SOC-2 American Social Problems	3
SOC-20 Introduction to Criminology	3
SOC-50 Introduction to Social Research Methods	3

\*Associate in Science for Transfer Degree

The Associate in Science in Administration of Justice for Transfer degree will be awarded upon completion of coursework totaling 60 California State University (CSU) transferable units including the major requirements and the Intersegmental General Education Transfer Curriculum (IGETC) or California State University General Education (CSUGE) requirements with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of "C" or better.

## Administration of Justice (R)

Associate Degree for Transfer\*

CSUGE AS642/IGETC AS643

Required Courses (60 units) – See College catalog for degree requirements.

Degree Course Requirements	Units
ADJ-1 Introduction to the Administration of Justice	3
ADJ-3 Concepts of Criminal Law	3
Electives from List A	6
Electives from List B	6
<b>Electives List A (6 units)</b>	
ADJ-2 Principles and Procedures of the Justice System	3
ADJ-4 Legal Aspects of Evidence	3
ADJ-5 Community Relations	3
ADJ-8 Juvenile Law and Procedures	3
ADJ-12 Introduction to Criminalistics	3
ADJ-13 Criminal Investigation	3
ADJ-20 Introduction to Corrections	3
<b>Electives List B (6 units)</b>	
PSY-1/1H General Psychology/Honors	3
SOC-1/1H Introduction to Sociology/Honors	3
SOC-20 Introduction to Criminology	3
SOC-50 Introduction to Social Research Methods	3

\*Associate in Science for Transfer Degree

The Associate in Science in Administration of Justice for Transfer degree will be awarded upon completion of 60 California State University (CSU) transferable units including the above major requirements and the Intersegmental General Education Transfer Curriculum (IGETC) or California State University General Education (CSUGE) requirements with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of "C" or better.

## Administration of Justice/ Basic Correctional Deputy Academy (M) MCE923

Please note that separate application and additional requirements may be needed

Required Courses (14 units) – 1 course

Certificate Course Requirements	Units
ADJ-C1D Basic Correctional Deputy Academy	14



## Administration of Justice/ Basic Public Safety Dispatch (M) MCE940

Please note that separate application and additional requirements may be needed

**Required Courses (8 units) - 2-6 courses**

Certificate Course Requirements	Units
ADJ-D1A Basic Public Safety Dispatch	6
Electives	2
<b>Electives (2 units)</b>	
ADJ-D1B Dispatcher Update	1
ADJ-D1C Communications Training Officer	2
ADJ-D3A Handling the Rising Tide of Suicide	.25
ADJ-D4A Dispatcher Role in Critical Incidents	.25
ADJ-D5A Dispatcher Public Safety Advanced	.5
ADJ-D6A Crisis Negotiator Concepts	.25
ADJ-D7A Dispatcher's Role in Domestic Violence/ Sexual Assault	.25

## Administration of Justice/ Corrections (M)

Associate of Science Degree\*  
MAS932/MAS932B/MAS932C

**Required Courses (20 units) - See College catalog for degree requirements.**

Degree Course Requirements	Units
ADJ-C1D Basic Correctional Deputy Academy	14
<b>6 units from the following courses:</b>	
ADJ-13 Criminal Investigation	3
ADJ-22 Legal Aspects of Corrections	3
ADJ-24 Interviewing and Interrogation	3

\*Associate of Science Degree

The Associates of Science Degree in Administration of Justice/Corrections will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

- Moreno Valley College (M)
- Norco College (N)
- Riverside City College (R)
- More than one college

## Administration of Justice/Law Enforcement Basic Peace Officer Academy Intensive (M) MAS931/MAS931B/MAS931C/MCE931

Please note that separate application and additional requirements may be needed

**Required Courses (40 units) - 1 course**

Certificate Course Requirements	Units
ADJ-B1B Basic Peace Officer Training Academy Intensive	40

## Administration of Justice/Law Enforcement Basic Peace Office Modular Academy (M) MAS922/MAS922B/MAS922C/MCE922

**Required Courses (35 units) - 3 courses**

Certificate Course Requirements	Units
ADJ-R1A2 Level III Modular Academy Training	7
ADJ-R1B Level II Modular Academy Training	9
ADJ-R1C Level I Regular Basic Course, Modular Format, Modular Training 1	19

## Corrections (R) CE943

**Required Courses (16 units) - 5 courses**

Certificate Course Requirements	Units
ADJ-20 Introduction to Corrections	3
ADJ-21 Control and Supervision in Corrections	3
ADJ-22 Legal Aspects of Corrections	3
ADJ-25 Introduction to Probation and Parole	3
ENG-1A English Composition	4

## Crime Scene Investigation (N) NCE619

**Required Courses (15 units) - 5 courses**

Certificate Course Requirements	Units
ADJ-2 Principles and Procedures of the Justice System	3
ADJ-3 Concepts of Criminal Law	3
ADJ-13 Criminal Investigation	3
ADJ-14 Advanced Criminal Investigation	3
<b>Select another 3 units from the following:</b>	
ADJ-12 Introduction to Criminalistics	3
ANT-10 Forensic Anthropology	3



## Crime Scene Investigation (R) CE619

Required Courses (15 units) - 5 courses

Certificate Course Requirements	Units
ADJ-2 Principles and Procedures of the Justice System	3
ADJ-3 Concepts of Criminal Law	3
ADJ-13 Criminal Investigation	3
ADJ-14 Advanced Criminal Investigation	3
ANT-10 Forensic Anthropology	3

## Emergency Medical Technician (M) MCE935

Please note that separate application and additional requirements may be needed

Required Courses (8.5 units) - 2 courses

Certificate Course Requirements	Units
EMS-50 Emergency Medical Technician	7
EMS-51 Emergency Medical Services-Basic Clinical/Field	1.5

## Investigative Assistant (R) CE785

Required Courses (15 units) - 5 courses

Certificate Course Requirements	Units
ADJ-3 Concepts of Criminal Law	3
ADJ-4 Legal Aspects of Evidence	3
ADJ-13 Criminal Investigation	3
ADJ-23 Criminal Justice Report Writing	3
CIS-1A Introduction to Computer Information Systems	3

## FIRE TECHNOLOGY

### Fire Fighter Academy (M) MAS669/MAS669B/MAS669C/MCE669

Please note that separate application and additional requirements may be needed

Required Courses (20.5 units) - 2 courses

Certificate Course Requirements	Units
FIT-S3 Basic Firefighter Academy	19
FIT-S3A Introduction to Fire Academy and Physical Conditioning for Fire Academy Students	1.5

### Fire Service Leadership (M) MAS895/MAS895B/MAS895C/MCE895

Required Courses (18.5 units) - 12 courses

Certificate Course Requirements	Units
FIT-C-30 Intermediate ICS	.5
FIT-CO2A Human Resource Management	2
FIT-CO2B General Administrative Functions	1
FIT-CO2C Fire Inspection and Investigations	2
FIT-CO2D All Risk Command Operations	2
FIT-CO2E Wildland Incident Operations	1.5
FIT-CFO3A Human Resource Management Chief Fire Officer	1.5
FIT-CFO3B Budget and Fiscal Responsibilities Chief Fire Officer	1
FIT-CFO3C General Administration Functions Chief Fire Officer	1
FIT-CFO3D Emergency Services Delivery Responsibilities	1
FIT-M20 Personal Philosophy-Leadership	2.5
FIT-M21 Leading Others Ethically	2.5





## Fire Technology (M)

MAS555/MAS555B/MAS555C/MCE555

Please note that separate application and additional requirements may be needed

### Required Courses (26.5 units) - 8 courses

Certificate Course Requirements	Units
FIT-1 Fire Protection Organization	3
FIT-2 Fire Behavior and Combustion	3
FIT-3 Fire Protection Equipment and Systems	3
FIT-4 Building Construction for Fire Protection	3
FIT-5 Fire Prevention	3
FIT-7 Principles of Fire and Emergency Services Safety	3
<b>Electives (5 units)</b>	
EMS-50 and EMS-51 Emergency Medical Technician and Emergency Medical Services - Basic Clinical/Field	8.5
FIT-6 Fire Apparatus and Equipment	3
FIT-8 Strategies and Tactics	3
FIT-9 Fire Ground Hydraulics	3
FIT-14 Wildland Fire Control	3
FIT-A1A Fire Investigation 1A	2
FIT-C1A Command 1A, Command Principles for Command Officers	2
FIT-C1B Command 1B, Command Operations for the Company Officer	2
FIT-C1C Command 1C, I-Zone Firefighting for Com Off	2
FIT-C19B Intermediate Wildland Fire Behavior (S-290)	1
FIT-C30 Intermediate Incident Command System (I-300)	.5
FIT-M1 Fire Management 1, Management/Supervision for Company Officers	2
FIT-P1 Fire Prevention 1: Fire and Life Safety Inspections	2
FIT-S21 Public Safety Honor Guard Academy	1.5
FIT-TI1A Training Instructor 1A	1.5
FIT-TI1B Training Instructor 1B	1.5
FIT-TI1C Training Instructor 1C	1.5
KIN-35 Foundation for Fitness and Wellness	3
MAG-44 Principles of Management	3
PHI-12 Introduction to Ethics	3

## PARALEGAL STUDIES

### Paralegal Studies (R)

Associate of Science Degree\*

AS591/AS591B/AS591C

Required Courses (64.5-76.5 units) - See College catalog for degree requirements.

Degree Course Requirements	Units
<b>Level I Courses:</b>	
BUS-18A Business Law I	3
CAT/CIS-80 Word Processing: Microsoft Word for Windows <b>OR</b> CAT/CIS-84 Word Processing: WordPerfect for Windows	3
PAL-10 Introduction to Paralegal Studies	3
PAL-64 Legal Research and Computer Applications	3
PAL-68 Civil Litigation and Procedures I	3
<b>Level II Courses:</b>	
BUS-18B Business Law II	3
PAL-14 Legal Ethics	3
PAL-70 Law Office Policies, Procedures and Ethics	1.5
PAL-72 Legal Analysis and Writing	3
PAL-78 Civil Litigation and Procedures II	3
<b>Specialty Courses (Select 9 units from the following) :</b>	
ACC-1A Principles of Accounting I	3
PAL-80 Internship Project	1.5
PAL-81 Bankruptcy Law and Procedures	3
PAL-83 Estate Planning and Probate Procedures	3
PAL-85 Family Law and Procedures	3
PAL-87 Trial Practice Preparation and Procedures	3
RLE-82 Legal Aspects of Real Estate	3

\*Associate of Science Degree

The Associate of Science Degree in Paralegal Studies will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

Moreno Valley College (M)

Norco College (N)

Riverside City College (R)

More than one college



TRANSPORTATION







## Ready to...

- Apply your knowledge of mechanics to maintain machines?
- Use the latest technology to identify and solve mechanical problems?
- Learn skills that will be in-demand, no matter where you live?



Adrian has received an Automotive Mechanical certificate and is gaining experience at Citrus Motors. He would like to give recognition to his automotive professors for making the “RCC automotive program knowledgeable, welcoming, and fun.”

*“My passion for cars was ignited at the age of six, which is why I pursued the Automotive Mechanical program at RCC. Thanks to the education and training, I quickly landed a job as a technician for Citrus Ford/Kia.”*

- Adrian Alvarez

### Types of Careers

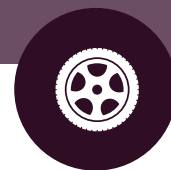
- Diesel Engine Specialists
- Aircraft Mechanics
- Auto Glass Installers
- Avionics Technicians

### Salary Snapshot

- Diesel Engine Specialists: \$24.04
- Aircraft Mechanics: \$34.68
- Auto Glass Installers: \$14.51
- Avionics Technicians: \$36.92

### Industry Sector Pathways

- Automotive Air Conditioning/Heat
- Automotive Alignment, Brakes, Steering, Suspension, Driveability, Detailer/Porter, Electrical Systems
- Automotive Management: Repair Shop
- Automotive Specialty: Master Technician, General Motors, Ford
- Automotive Technology, Automotive/General Service Technician
- Aviation Maintenance, Airframe, Powerplant, Avionics Technology
- Collision Repair, Refinishing
- Geographic Information Science/Systems (GIS), Geospatial Technician
- Diesel Technology, Heavy/Medium/Light Duty Diesel Trucks
- Engine Performance, Inspection, Smog/Emissions Technician
- Engine Rebuilding, High Performance Automotive, Fabrication
- Transmissions



When you think about the importance of moving people and products, it's easy to see why professionals in the Transportation industry are so valued. They are responsible for ensuring that people and merchandise get to the right place, at the right time, and at the right price. Jobs in this industry include aircraft mechanics, automotive service technicians, and logistics managers. Check out our programs in Automotive Technology, and Logistics Management.

## AUTOMOTIVE TECHNOLOGY

### Automotive Collision Repair (R)

AS953/AS953B/AS953C/CE953

Required Courses (20 units) - 5 courses

Certificate Course Requirements	Units
AUB-50 Introduction to Automotive Collision Repair	4
AUB-51 Automotive Non-Structural Collision Repair and Estimating	4
AUB-54 Automotive Structural Collision Repair and Frame	4
AUB-56 Automotive Technology for the Automotive Collision Specialist	4
Electives	4
Elective Courses (4 units)	Units
AUB-52 Automotive Refinishing and Paint	4
AUB-53 Automotive Collision Repair Special Projects	4
AUB-59A Automotive Collision Service and Repair	2

### Automotive Hybrid and Electrical Vehicles (R)

AS954/AS954B/AS954C/CE954

Required Courses (23 units) - 6 courses

Certificate Course Requirements	Units
AUT-50 Automotive Principles	4
AUT-52A Automotive Tune-up and Electrical Systems	4
AUT-54 Automotive Electrical Systems	4
AUT-56 Automotive Computer Controls	4
AUT-95 Introduction to Hybrid and Electric Vehicle Technology	3
AUT-96 Advanced Hybrid and Electric Vehicle Technology	4

### Automotive Refinishing and Paint (R)

AS955/AS955B/AS955C/CE955

Required Courses (20 units) - 5 courses

Certificate Course Requirements	Units
AUB-50 Introduction to Automotive Collision Repair	4
AUB-51 Automotive Non-Structural Collision Repair and Estimating	4
AUB-52 Automotive Refinishing and Paint	4
AUB-55 Automotive Advanced Refinishing and Custom Paint	4
Electives	4
Elective Courses (4 units)	Units
AUB-53 Automotive Collision Repair Special Projects	4
AUB-59B Automotive Refinishing Service and Repair	2
AUB-60 Automotive Trim and Upholstery I	4





## Automotive Technology Electrical (R) AS513/AS513B/AS513C/CE513

Required Courses (23 units) - 6 courses

Certificate Course Requirements	Units
AUT-50 Automotive Principles	4
AUT-52A Automotive Tune-up and Electrical Systems	4
AUT-52B Automotive Tune-up and Emission Controls	4
AUT-54 Automotive Electrical Systems	4
AUT-56 Automotive Computer Controls	3
AUT-57 Automotive Heating and Air Conditioning	4

## Automotive Technology Mechanical (R) AS515/AS515B/AS515C/CE515

Required Courses (28 units) - 7 courses

Certificate Course Requirements	Units
AUT-50 Automotive Principles	4
AUT-51A Internal Combustion Engines Rebuilding, Gas and Diesel-Upper End	4
AUT-51B Internal Combustion Engines Rebuilding, Gas and Diesel-Lower End	4
AUT-53A Automotive Chassis and Alignment	4
AUT-53B Automotive Brakes	4
AUT-55A Automotive Automatic Transmissions/Transaxles	4
AUT-55B Automotive Manual Drivetrain Systems	4

## Automotive Trim and Upholstery (R) AS516/AS516B/AS516C/CE516

Required Courses (20 units) - 5-6 courses

Certificate Course Requirements	Units
AUB-50 Introduction to Automotive Collision Repair	4
AUB-51 Automotive Non-Structural Collision Repair and Estimating	4
AUB-60 Automotive Trim and Upholstery, I	4
AUB-61 Automotive Trim and Upholstery, II	4
Electives (Choose from the list below)	4
<b>Electives (4 units)</b>	
AUB-53 Automotive Collision Repair Special Projects	4
AUB-59A Automotive Collision Service and Repair	2
AUB-59B Automotive Refinishing Service and Repair	2
WEL-34 Metal Joining Processes	2

## AUTOMOTIVE TECHNOLOGY NONCREDIT

## ASE Engine Performance and Electric Specialist (R) CC8022

Required Courses (72 hours) - 4 courses

Certificate Course Requirements	Hours
AUT-806 ASE Test Preparation - Electrical/Electronic Systems	18
AUT-807 ASE Test Preparation - Heating and Air Conditioning	18
AUT-808 ASE Test Preparation - Engine Performance	18
AUT-811 ASE Test Preparation - Advanced Engine Performance	18

*"I attended a university but I wasn't passionate about my program. I wanted to pursue a skill that would allow me to financially take care of my family. I entered the Automotive Technology program and have had the best experience."*

- Jasmine Wallace  
Automotive Technology



## ASE Powertrain Specialist (R) CC8023

Required Courses (72 hours) - 4 courses

Certificate Course Requirements	Hours
AUT-801 ASE Test Preparation - Engine Repair	18
AUT-802 ASE Test Preparation - Automatic Transmission/ Transaxle	18
AUT-803 ASE Test Preparation - Manual Drive Train and Axles	18
AUT-806 ASE Test Preparation - Electrical/ Electronic Systems	18

## ASE Undercar Specialist (R) CC8024

Required Courses (54 hours) - 3 courses

Certificate Course Requirements	Hours
AUT-804 ASE Test Preparation - Suspension and Steering	18
AUT-805 ASE Test Preparation - Brakes	18
AUT-806 ASE Test Preparation - Electrical/Electronic Systems	18

## LOGISTICS

### Logistics Management (N) NAS579/NAS579B/NAS579C/NCE579

Required Courses (18 units) - 7 courses

Certificate Course Requirements	Units
BUS-80 Principles of Logistics	3
BUS-82 Freight Claims	1.5
BUS-83 Contracts	1.5
BUS-85 Warehouse Management	3
BUS-86 Transportation and Traffic Management	3
BUS-87 Purchasing and Supply Management	3
BUS-90 International Logistics	3

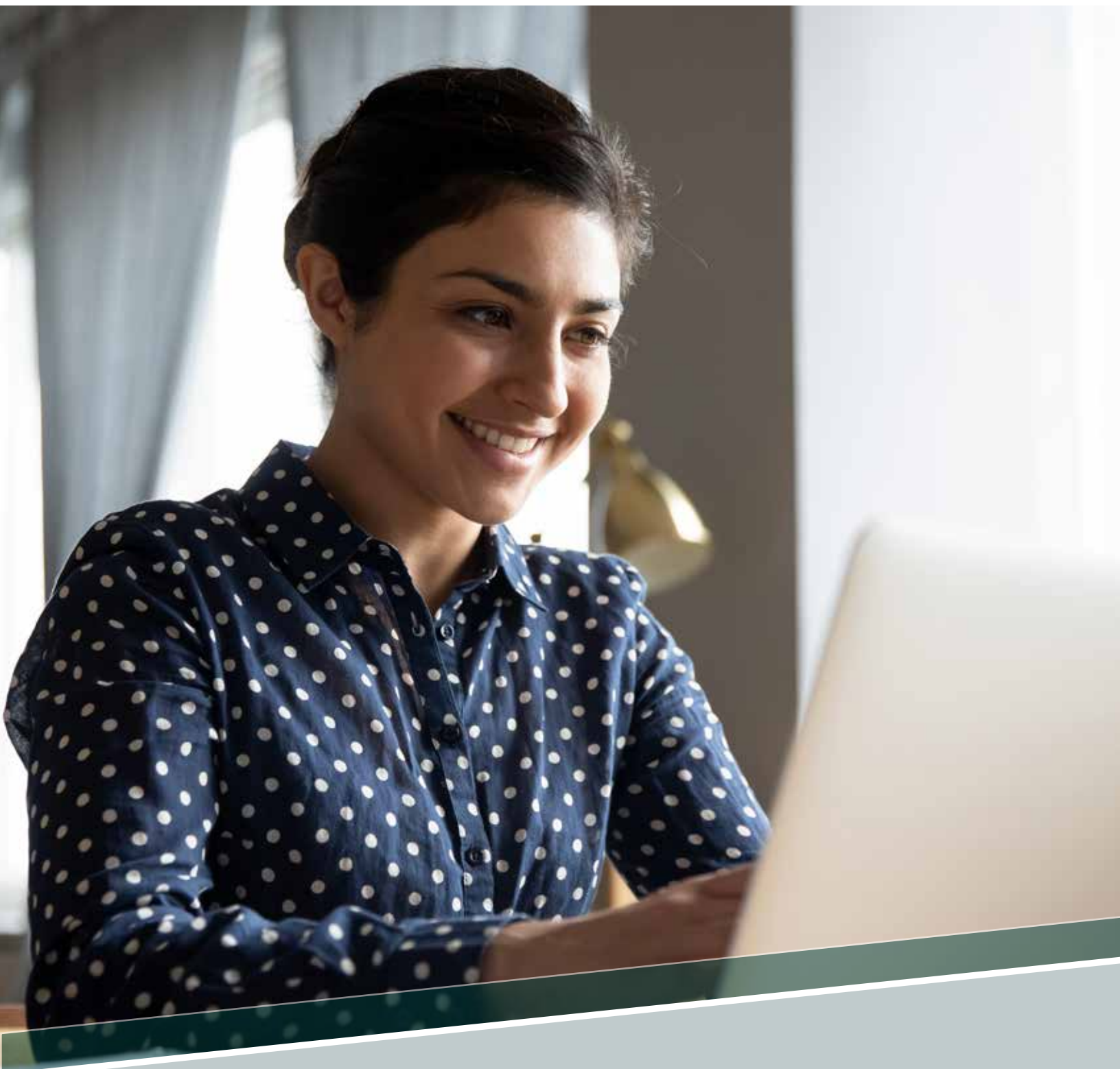
Moreno Valley College (M) ■

Norco College (N) ■

Riverside City College (R) ■

More than one college ■





# NONCREDIT/ EXTENDED LEARNING





## About RCCD Extended Learning

The Extended Learning programs at Moreno Valley College, Norco College and Riverside City College offer noncredit, tuition-free courses. Whether you are looking to gain professional expertise to expand your career opportunities or grow your business, learn foundational skills to enter a CTE pathway or augment your educational experience while taking credit courses, Extended Learning programs provide a pathway to success!

### HOW TO REGISTER

**Step 1:** Choose the classes you would like to take. Any updates to the class schedule will be noted on the Extended Learning website at <https://extendedlearning.rccd.edu/scheduleapp/Pages/default.aspx>. Please see the official college course schedule as course time and days are subject to change.

**Step 2:** Visit the “Get Started” page under the Extended Learning website for step-by-step instructions on how to register using MyPortal or EduNav.

After completing the free application to one of the colleges through CCC Apply, you must wait 1 to 2 business days to receive your official welcome email with your MyPortal login information. The email will contain your RCCD student ID number, which is needed to login to your MyPortal account. All students register for both noncredit and credit courses in MyPortal or EduNav. Students that apply to one college, can take classes at all three colleges in the Riverside Community College District. Please apply at least 3 weeks before the class starts.

### WANT MORE INFORMATION?

Virtual information session dates are listed on the Get Started page. For additional information, please visit the RCCD Extended Learning website or email [extlearning@rccd.edu](mailto:extlearning@rccd.edu).





## NONCREDIT CERTIFICATES OFFERED

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### ACCOUNTING

Accounting Basics for Small Business (p. 29)

- Setting Up Quickbooks for Small Business (ACC-801)
- Monthly Procedures Using Quickbooks (ACC-802)
- Year End Procedures With Quickbook (ACC-803)

### BUSINESS

Gig: The Solopreneurs Adventure (p. 30)

- Entrepreneurial Mindset (BUS-111)
- Solopreneurs: Personal Finance and Quickbooks Quickstart (BUS-113)
- Business Skills: Professional Online Presence (BUS-815)

### COMPUTER APPLICATION TECHNOLOGY

Business Skills: MOS Prep – Microsoft Office Specialist Master Certification Preparation (p. 70)

- MOS Prep: Microsoft Office Word Expert Exam Preparation (CAT-841)
- MOS Prep: Microsoft Office Excel Expert Exam Preparation (CAT- 842)
- MOS Prep: Microsoft Office PowerPoint Core Exam Preparation (CAT-843)
- MOS Prep: Microsoft Office Access Core Exam Preparation (CAT-844) OR
- MOS Prep: Microsoft Office Outlook Core Exam Preparation (CAT-845)

### COMPUTER INFORMATION SCIENCE

Computer Maintenance and Security (p. 76)

- Computer Repair for Beginners (CIS-824A)
- Networking for Home and Small Businesses (CIS-824B)
- Cybersecurity for Beginners (CIS-824C)

Introduction to Python Programming (p. 76)

- Intro to Python Programming: Part 1 (CIS-830)
- Intro to Python Programming: Part 2 (CIS-831)
- Intro to Python Programming: Part 3 (CIS-832)
- Computer Information Science

### ENTREPRENEURSHIP

Social Media for Business (p. 30)

- Facebook for Business (ENP-801)
- Pinterest and Instagram for Business (ENP-802)
- YouTube for Business (ENP-803)
- Twitter for Business (ENP- 804)
- LinkedIn for Business (ENP-805)
- Entrepreneurship

### PROFESSIONAL DEVELOPMENT STUDIES

Customer Relations (p. 29)

- The Art of Negotiating and Collaborating (PDS-806)
- Personality Styles & Difficult Relationships (PDS-807)
- Best Practices in Customer Service (PDS-813)

Emerging Leaders (p. 29)

- Leadership Skills (PDS-801)
- Supervisory Skills (PDS-802)
- Increasing Productivity (PDS-803)
- Motivating Yourself and Others (PDS-804)

Financial Literacy (p. 30)

- Personal Finance (PDS-816)
- Financial Future (PDS-817)

Sales Techniques (p. 30)

- Closing Techniques That Win the Sale (PDS-814)
- Winning Sales Scripts (PDS-815)

Workplace Essentials (p. 30)

- Critical Thinking, Prob. Solving & Decision-Making (PDS-808)
- Business Writing in the Technological World (PDS-809)
- Time Management (PDS-810)
- Workplace Communication Studies (PDS-812)



# Noncredit Frequently Asked Questions (FAQs)

## **What are noncredit courses?**

Noncredit courses are designed for students interested in pursuing personal, professional or academic goals. Noncredit courses focus on helping students build specific skills that are necessary for reaching their individual goals. All courses are taught by college faculty.

## **Who can take noncredit courses?**

Any community member 18 years or older can take noncredit courses. Those under 18 must complete a concurrent enrollment form and return it to the college's Admissions and Records office. Please contact [extlearning@rccd.edu](mailto:extlearning@rccd.edu) for more information.

## **How much does it cost to enroll in a noncredit course?**

All noncredit courses are tuition-free, though students may have to pay for books. All students that park on campus must purchase a parking pass. Since noncredit courses are tuition-free, financial aid is not available for these courses.

## **How long will it take to earn a certificate?**

The time it takes to complete a certificate varies. Visit the Courses and Certificates pages on the Extended Learning website to learn more. Students can also make an appointment with an educational advisor or college counselor. Email [extlearning@rccd.edu](mailto:extlearning@rccd.edu) to get connected.

For additional frequently asked questions (FAQs), visit the About Noncredit page under the Extended Learning website about residency, how to sign up, and more!





**Moreno Valley College = M**

**Norco College = N**

**Riverside City College R**

## Apprenticeship

Apprenticeship: Manufacturing Technician I (N)  
Apprenticeship: Manufacturing Technician II (N)  
Electrician Apprentice (N)  
Manufacturing Technician II (N)  
Sound and Communication Systems Installer Apprenticeship (N)

## Arts, Media, and Entertainment

Basic Graphic Communication (R)  
Basic Graphic Design (MR)  
Basic Television Production (R)  
Electronic Publishing and Design (R)  
Game Art (M)  
Game Design (N)  
Game Programming (N)  
Graphic Design (N)  
Graphic Design and Digital Media (R)  
Graphic Design and Printing (R)  
Journalism Associate Degree for Transfer (R)  
Motion Graphics and 3D Animation (R)  
Music Industry Studies: Audio Production (N)  
Photography (R)  
Production Specialist (R)  
Technical Theatre (R)

## Building and Construction Trades

Building Automation Control (R)  
Building Energy Systems Professional in HVAC Technology Associate Degree (R)  
Construction Management (N)  
Construction Technology (N)  
Digital Electronics (N)  
Electrician (N)  
Electrician Apprenticeship (N)  
Green Technician (N)  
HVAC Commercial Technology (R)  
HVAC Residential Technology (R)  
Residential Installation (R)  
Sound and Communication Systems Installer Apprenticeship (N)

## Business Administration

Accounting Basics for Small Business Noncredit (MNR)  
Business Administration-Accounting (MNR)  
Business Administration Associate Degree for Transfer (MNR)  
Business Administration-General Business (MNR)  
Business Administration-Human Resources (R)  
Business Administration-Management (MNR)  
Business Skills Boot Camp Noncredit (R)  
Customer Relations Noncredit (MNR)  
Emerging Leaders Noncredit (MNR)  
Enterprise Communication Noncredit (MNR)  
Entrepreneurship (R)  
Entrepreneurship: Getting Started (N)  
Entrepreneurship: Legal and Finance (N)  
Financial Literacy Noncredit (MNR)  
General Business (R)  
Gig Economy (R)

Gig: The Solopreneurs Adventure Noncredit (R)  
Human Resources (R)  
International Business (R)  
Logistics Management (N)  
Management (R)  
Operations and Production Management (R)  
Registered Individual and Small Business Income Tax Preparer (N)  
Retail Management/Western Association of Food Chains (WAFC) (N)  
Sales Technique Noncredit (MNR)  
Small Business Accounting (MNR)  
Small Business Payroll Accounting (MNR)  
Social Media for Business Noncredit (MN)  
Workplace Essentials Noncredit (MNR)

## Cosmetology

Barbering Concepts (R)  
Cosmetology (R)  
Cosmetology Business Administration-Entrepreneurial Concentration (R)  
Cosmetology Business Administration-Management and Supervision Concentration (R)  
Cosmetology Concepts (R)  
Cosmetology Instructor Training (R)  
Esthetician (R)  
Esthetician Concepts (R)  
Hair Styling Concepts (R)  
Manicuring Concepts (R)

## Education, Child Development, and Family Services

Behavioral Therapist (M)  
Careers in Social Work (M)  
Child and Adolescent Development Associate Degree for Transfer (N)  
Child Welfare (M)  
Community Interpretation (M)  
Drug and Alcohol Studies (M)  
Early Childhood Education (MNR)  
Early Childhood Education Assistant Teacher (MNR)  
Early Childhood Education Associate Degree for Transfer (R)  
Early Childhood Education Twelve Core Units (MNR)  
Early Childhood Intervention Assistant (MNR)  
Education Paraprofessional (M)  
Education Paraprofessional (R)  
Employment Support Specialization (M)  
Family Studies (M)  
Human Services (M)  
Infant and Toddler Specialization (MR)  
Justice System Studies (M)  
Military Social Work (M)  
Multicultural Counseling (M)  
Sign Language Interpreting (R)  
Social Work Administration Studies (M)

## Energy, Environment, and Utilities

Building Inspection Technology (R)  
Zero Net Energy (R)

## Engineering and Architecture

3D Mechanical Drafting (N)  
Architectural Graphics (N)  
Drafting Technology (N)  
Engineering Graphics (N)  
Pre-Engineering Associate Degree (N)



## Health Science and Medical Technology

Administrative/Clinical Medical Assisting (M)  
Critical Care Nurse (R)  
Dental Assistant (M)  
Dental Hygiene Associate Degree (M)  
Emergency Medical Technician (M)  
Kinesiology/Exercise, Sports and Wellness-Coaching Emphasis (R)  
Kinesiology/Exercise, Sports and Wellness-Fitness Professions Emphasis (R)  
Kinesiology/Exercise, Sports and Wellness-Athletic Training Emphasis (R)  
Medical Transcription (M)  
Nursing Assistant (R)  
Paramedic (M)  
Pilates Dance/Conditioning Instructor (R)  
Registered Nursing Program Associate Degree (R)  
Vocational Nursing (R)

## Hospitality, Tourism, and Recreation

Baking and Pastry (R)  
Culinary Arts (R)  
Food Service Career and Certification Preparation Noncredit (R)  
Math Skills for the Professional Baker Noncredit (R)

## Information and Communication Technologies

Administrative Office Professional (R)  
Amazon Web Services (AWS) Cloud Computing (R)  
Business Information Worker (NR)  
Business Skills - MOSPrep-Microsoft Office Specialist Noncredit (MR)  
C++ Programming (NR)  
Cisco Networking (R)  
Coding Prep Noncredit (MR)  
Computer Applications (M)  
Computer Maintenance and Security Noncredit (M)  
Computer Programming (MNR)  
Cyber Defense Associate Degree (R)  
Executive Office Management (R)  
Executive Office Professional (R)  
Information Assurance Auditing (M)  
Information Security Certificate and Cyber Defense (R)  
Information Systems: Cyber Skills Noncredit (R)  
Information Technology (MR)  
Internet of Things (IOT): Embedded Systems and Microcontrollers Noncredit (M)  
Introduction of Python Programming Noncredit (R)  
IT Technician Pathway: Cybersecurity Specialist (M)  
IT Technician Pathway: IT Systems Specialist (M)  
IT Technician Pathway: IT Systems Support and Sales (MR)  
Java Programming (NR)  
Legal Administrative Professional (R)  
Office Assistant (R)  
Operating Systems and Internet Literacy Noncredit (M)  
Python Programming Certificate (M)  
Webmaster-Web Designer Concentration (MR)  
Webmaster-Web Developer Concentration (MR)

## Manufacturing and Product Development

Apprenticeship: Manufacturing Technician I (N)  
Apprenticeship: Manufacturing Technician II (N)  
Computer Numerical Control Programming (N)  
Computer Numerical Control (CNC) Operator (N)  
Computer Numerical Control Operator Noncredit (N)  
Conventional Machine Operator (N)  
Facility Maintenance (N)  
Industrial Automation (N)  
Manufacturing Technician II (N)

Pipe Welding (R)  
Stick Welding (SMAW) (R)  
Supply Chain Automation (N)  
Tig Welding (GTAW) (R)  
Welding Technology (R)  
Wire Welding (FCAW, GMAW) (R)

## Marketing, Sales, and Services

Business Administration-Marketing (MR)  
Business Administration-Real Estate (MNR)  
Marketing (R)  
Real Estate Practice (R)  
Real Estate Salesperson and Transaction (N)  
Real Estate Salesperson and Transaction (R)

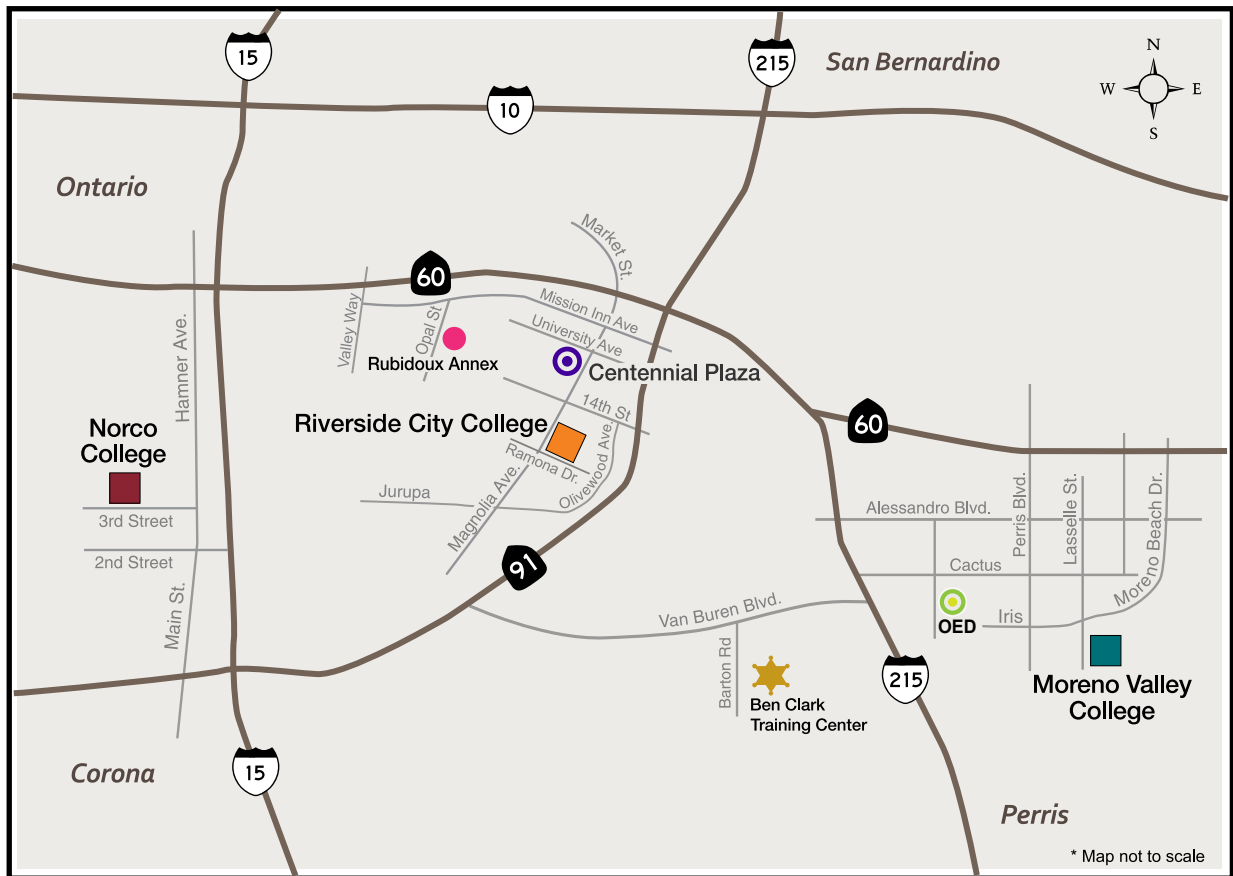
## Public Services

Administration of Justice (MR)  
Administration of Justice Associate Degree for Transfer (MNR)  
Administration of Justice/Basic Correctional Deputy Academy (M)  
Administration of Justice/Basic Public Safety Dispatch (M)  
Administration of Justice/Corrections Associate Degree (M)  
Administration of Justice/Law Enforcement Basic Peace Officer Academy Intensive (M)  
Administration of Justice/Law Enforcement Basic Peace Office Modular Academy (M)  
Corrections (R)  
Crime Scene Investigation (N)  
Crime Scene Investigation (R)  
Emergency Medical Technician (M)  
Fire Fighter Academy (M)  
Fire Service Leadership (M)  
Fire Technology (M)  
Investigative Assistant (R)  
Paralegal Studies Associate Degree (R)

## Transportation

ASE Engine Performance and Electric Specialist Noncredit (R)  
ASE Powertrain Specialist Noncredit (R)  
ASE Undercar Specialist Noncredit (R)  
Automotive Collision Repair (R)  
Automotive Hybrid and Electrical Vehicles (R)  
Automotive Refinishing and Paint (R)  
Automotive Technology Electrical (R)  
Automotive Technology Mechanical (R)  
Automotive Trim and Upholstery (R)  
Logistics Management (N)

# Riverside Community College District Locations



**Moreno Valley College**  
 16130 Lasselle Street  
 Moreno Valley, CA 92551-2045  
 (951) 571-6100  
[www.mvc.edu](http://www.mvc.edu)

**Norco College**  
 2001 Third Street  
 Norco, CA 92860-2600  
 (951) 372-7000  
[www.norcollege.edu](http://www.norcollege.edu)

**Riverside City College**  
 4800 Magnolia Avenue  
 Riverside, CA 92506-1299  
 (951) 222-8000  
[www.rcc.edu](http://www.rcc.edu)

**Ben Clark Training Ctr.**  
 16791 Davis Avenue  
 Riverside, CA 92518  
 (951) 571-6300

**RCCD Office of Economic Development (OED)**  
 23555 Meyer Drive  
 Riverside, CA 92518  
 (951) 571-6474

**Rubidoux Annex**  
 4250 Opal Street  
 Jurupa Valley, CA 92509  
 (951) 328-3790

**Centennial Plaza:**

- Center for Social Justice and Civil Liberties  
 3855 Market Street  
 Riverside, CA 92501
- RCC Coil School for the Arts  
 3890 University Avenue  
 Riverside, CA 92501
- RCC Culinary Arts Academy & RCCD District Offices  
 3801 Market Street  
 Riverside, CA 92501  
 (951) 222-8800  
[www.rccd.edu](http://www.rccd.edu)



RCCD

RIVERSIDE COMMUNITY  
COLLEGE DISTRICT

3801 Market Street  
Riverside, CA 92501