





# RIVERSIDE COMMUNITY COLLEGE DISTRICT

Wolde-Ab Isaac, Ph.D., Chancellor

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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.



## **Career Educated Professionals Are In Demand in Every Industry**

Fast, focused career programs can lead to employment in as little as one semester. The Riverside Community College District offers virtually unlimited options for career education degrees and certificates in high-demand fields like business, healthcare, cybersecurity and IT, energy, construction, and more!

### **Regional job growth is expanding at nearly double the national rate.**

- Middle-skill jobs, which require education beyond high school but not a four-year degree, make up the largest part of the labor market in the United States!
- Career education certificate holders increase their earnings by nearly 30% on average.
- 70% of all future jobs will require more education than a high school diploma.

### **Why the “Middle-Skills Job Gap” is Good for You**

Middle-skill jobs are those occupations that require more education than a high school diploma, but not a four-year degree. According to the Public Policy Institute of California, California was predicted to be facing a middle-skill job gap of up to 1.5 million workers by 2025. Not surprisingly, this gap increased due to the COVID-19 pandemic. This is especially alarming for the Inland Empire region, which is among the state’s fastest-growing, yet least-prepared economies, in terms of education and training.

While this demand poses a challenge for regional employers, it represents a huge opportunity for people looking for secure careers and great salaries. All you need is the right education to gain entry into these in-demand fields. And that’s exactly what the Riverside Community College District career education programs provide.

If you’re ready for a high-demand, high-paying career, you’ve come to the right place!

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# · CTE Programs at Riverside Community College District

# • Steps to Enroll

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

**NORCO COLLEGE (N):** [www.norcocollege.edu](http://www.norcocollege.edu) and click the *Apply Now* link

**RIVERSIDE CITY COLLEGE (R):** [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. Once you apply, you will be given a RCCD student email and access to the WebAdvisor account. 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:

**MORENO VALLEY COLLEGE (M):** Students connect with an educational advisor virtually or in person to create the first semester educational plan and to gain a better understanding of the courses needed for their first term. Email: [movaac@mvc.edu](mailto:movaac@mvc.edu) • Text: (951) 472-2176

**NORCO COLLEGE (N):** 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@norcocollege.edu](mailto:norcoEC@norcocollege.edu)

**RIVERSIDE CITY COLLEGE (R):** View your Abbreviated Educational Plan/Trailhead and Placement Summary under **Academic Planning** for suggested first-term courses on <https://portal.rcc.edu>.

STEP  
5

### COUNSELING:

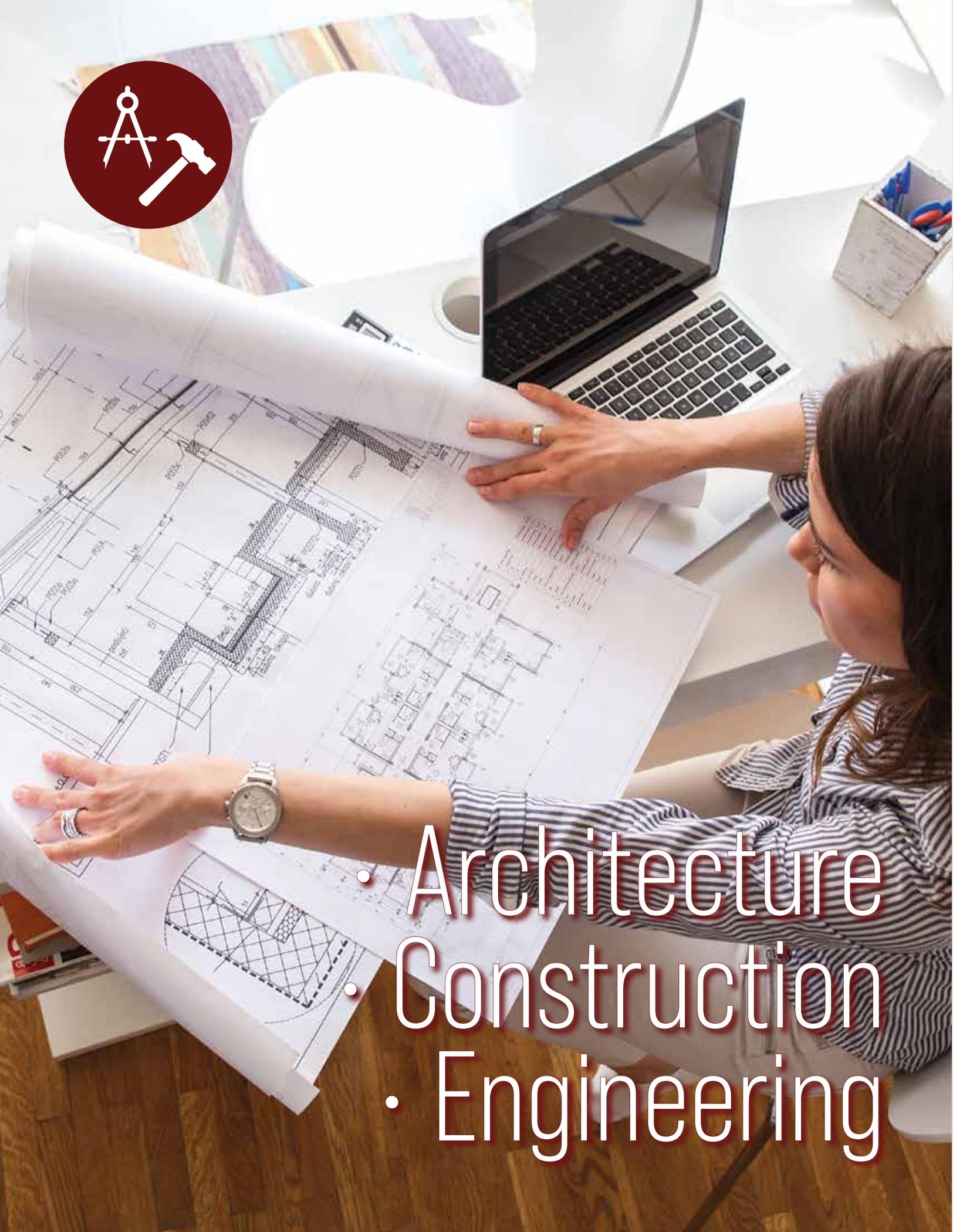
Students are encouraged to meet with a counselor to receive information on which courses to take to meet their educational and career goals.

STEP  
6

### CAREER AND TECHNICAL EDUCATION ENGAGEMENT CENTERS:

Students are encouraged to visit the engagement centers on their selected campus 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.*



- Architecture
- Construction
- Engineering

# Architecture

## Architectural Graphics (N)

Associate of Science Degree\*

NAS983/NAS983C/NCE983

Required Courses (27 units) – 9 courses

Degree Course Requirements	Units
ARE-24 Revit I-Architectural Drafting <b>OR</b> DFT-24 REVIT I-Architectural Drafting	3
ARE-25 Revit II-Advanced Architectural Drafting	3
ARE-37 Architectural Design I	3
CON-62 Print Reading for Construction	3
DFT-21 Drafting <b>OR</b> ENE-21 Drafting	3
DFT-27 Technical Communications <b>OR</b> ENE-27 Technical Communications	3
DFT-30 Computer Aided Drafting (CAD) <b>OR</b> ENE-30 Computer Aided Drafting (CAD)	3
Electives (Choose from list below)	6
<b>(Select another 6 units from the following):</b>	<b>Units</b>
ARE-35 History of Architecture-Beginnings through Gothic	3
ARE-36 History of Architecture: Renaissance to Modern	3
CON-60 Introduction to Construction	3
CON-74 Construction Estimating	3

## Essential 3D Tour (N)

NCE1020

Required Courses (6 units) – 2 courses

Certificate Course Requirements	Units
ARE-63 3D Tour, Virtual, Mixed, Augmented and Extended Reality	3
CON-62 Print Reading for Construction	3

## Essential Revit (N)

NCE1023

Required Courses (6 units) – 2 courses

Certificate Course Requirements	Units
ARE-24 Revit I - Architectural Drafting <b>OR</b> DFT-24 Revit I - Architectural Drafting	3
ARE-25 Revit II - Advanced Architectural Drafting	3

# Architecture-Noncredit

## Essential 3D Tour (N)

NCC8043

Required Courses (171 hours) – 2 courses

Certificate Course Requirements	Hours
ARE-863 3D Tour, Virtual, Mixed, Augmented and Extended Reality	117
CON-862 Print Reading for Construction	54

## Essential Revit (N)

NCC8046

Required Courses (234 hours) – 2 courses

Certificate Course Requirements	Hours
ARE-824 Revit I - Architectural Drafting	117
ARE-825 Revit II - Advanced Architectural Drafting	117



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



# Construction Technology

## Apprenticeship Carpentry, Acoustical Installer (N)

Associate of Science Degree\*  
**NAS1051/NAS1051C/NCE1051**

**Required Courses (25.5-26 units) – 16 courses**

Degree Course Requirements	Units
CRP-461A Acoustical Ceilings	1.5
CRP-462 Standard Acoustical Grids	1.5
CRP-463 Suspended Ceilings	1.5
CRP-464 Acoustical Soffits	1.5
CRP-466 Concealed/Glue-Up/Staple-Up Systems	1.5
CRP-467 Designer and Specialty Trims	1.5
CRP-468 Metal Pan and Security Systems	1.5
CRP-471A Orientation - Power Tools Safety	2
CRP-471B Safety and Health Certifications - Scaffold	2
CRP-471C Tool/Equipment Applications - Fall Protection	1.5
CRP-474A Print Reading - Specifications	2
CRP-479A Drywall and Acoustical Ceilings	1.5
<b>Electives (6-6.5 units)</b>	<b>Units</b>
Select four courses from the following:	
CRP-461B Advanced Acoustical Ceiling Layout	1.5
CRP-461C Advanced Acoustical Ceiling Installation	1.5
CRP-465 Prefab/Sound Panels	1.5
CRP-472A Basic Metal Framing	1.5
CRP-473C Framing Curves and Arches	1.5
CRP-474B Advanced Print Reading – Digital Application	2
CRP-483 Door and Door Frames (Layout and Frame)	1.5

## Apprenticeship Carpentry, Concrete (N)

Associate of Science Degree\*  
**NAS1052/NAS1052C/NCE1052**

**Required Courses (24.5-26 units) – 16 courses**

Degree Course Requirements	Units
CRP-404C Print Reading - Symbols	2
CRP-421A Orientation - Hand Tools Safety	2
CRP-421B Safety and Health Certifications - Hand & Power Tools Applications	2
CRP-421E Tool/Equipment Applications - Emergency Response Procedures	1.5
CRP-425A Foundations and Flatwork	1.5
CRP-426A Tilt-Up Panel Construction	1.5
CRP-426B Wall Forming	1.5
CRP-426C Gang Forms/Columns	1.5
CRP-426D Abutments	1.5
CRP-427C Beam and Deck Forming	1.5
CRP-427D Stairs and Ramp Forming	1.5
CRP-428A Bridge Construction	1.5
<b>Electives (5-6.5 units)</b>	<b>Units</b>
Select four courses from the following:	
CRP-421C Basic Wall Framing	1.5
CRP-422A Commercial Floor Framing	1.5
CRP-423B Basic Roof Framing	1.5
CRP-424A Basic Commercial Framing	1.5
CRP-424D Transit Level/Laser	2
CRP-425D Advanced Print Reading - Digital Planning	1.5
CRP-428E Bridge Falsework	1
CRP-429A Rigging	1.5
CRP-429C Solar Installer Level 1	1
CRP-495 Water Treatment Facilities	1.5



**For Types of Careers,  
 Salary Snapshots,  
 and Industry Sector  
 Pathways, Scan Here!**

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

## Apprenticeship Carpentry, Drywall Finisher (N)

Associate of Science Degree\*

NAS1053/NAS1053C/NCE1053

Required Courses (23.5 units) – 15 courses

Degree Course Requirements	Units
CRP-471A Orientation - Power Tools Safety	2
CRP-471B Safety and Health Certifications - Scaffold	2
CRP-472A Basic Metal Framing	1.5
CRP-474A Print Reading - Specifications	2
CRP-476A Basic Hand Finishing	1.5
CRP-476B Automatic Finishing Tools	1.5
CRP-477A Drywall Installation/Finish Trims	1.5
CRP-477B Advanced Hand Finishing	1.5
CRP-477C Advanced Automatic Finishing Tools	1.5
CRP-478B Advanced Metal Framing	1.5
CRP-478C Wet Wall Finishes	1.5
CRP-478D Ceiling and Soffit Finishing	1.5
CRP-479A Drywall and Acoustical Ceilings	1.5
CRP-482B S/B Firestop/Fireproofing Procedures	1.5
CRP-482C Decorative Trims and Textures	1.5

## Apprenticeship Carpentry, Drywall/Lather (N)

Associate of Science Degree\*

NAS1054/NAS1054C/NCE1054

Required Courses (26 units) – 16-17 courses

Degree Course Requirements	Units
CRP-471A Orientation - Power Tools Safety	2
CRP-471B Safety and Health Certifications - Scaffold	2
CRP-471C Tool/Equipment Applications - Fall Protection	1.5
CRP-472A Basic Metal Framing	1.5
CRP-472B Basic Lathing	1.5
CRP-473A Framing Ceilings and Soffits	1.5
CRP-473B Framing Suspended Ceilings	1.5
CRP-473C Framing Curves and Arches	1.5
CRP-474A Print Reading - Specifications	2
CRP-474B Advanced Print Reading – Digital Application	2
CRP-475A Light Gage Welding AWS - A	1.5
CRP-483 Door and Door Frames (Layout and Frame)	1.5

Electives (6 units)	Units
CRP-472C Advanced Lathing	1.5
CRP-474C Air, Moisture, and Thermal Barriers	1
CRP-475B Light Gage Welding LAC	1.5
CRP-475C Light Gage Welding AWS - B	1.5
CRP-476A Basic Hand Finishing	1.5
CRP-476B Automatic Finishing Tools	1.5
CRP-477A Drywall Installation/Finish Trims	1.5
CRP-477B Advanced Hand Finishing	1.5
CRP-477C Advanced Automatic Finishing Tools	1.5
CRP-478B Advanced Metal Framing	1.5
CRP-478C Wet Wall Finishes	1.5
CRP-478D Ceiling and Soffit Finishing	1.5
CRP-479A Drywall and Acoustical Ceilings	1.5
CRP-479C Drywall Applications - Production Drywall Hanging	1.5
CRP-482B S/B Firestop/Fireproofing Procedures	1
CRP-482C Decorative Trims and Textures	1.5
CRP-489 Freeform Lathing	1.5

## Apprenticeship Carpentry, Finish Carpentry (N)

Associate of Science Degree\*

NAS1055/NAS1055C/NCE1055

Required Courses (24.5 units) – 15 courses

Degree Course Requirements	Units
CRP-404C Print Reading - Symbols	2
CRP-421A Orientation - Hand Tools Safety	2
CRP-421B Safety and Health Certifications - Hand & Power Tools Applications	2
CRP-421C Basic Wall Framing	1.5
CRP-424D Transit Level/Laser	2
CRP-425D Advanced Print Reading - Digital Planning	1.5
CRP-433A Cabinet Millwork and Assembly	1.5
CRP-433B Cabinet Installation	1.5
CRP-433C Show Case and Loose Store Fixtures	1.5
CRP-433D Molding and Trims	1.5
CRP-434A Plastic Laminates	1.5
CRP-434B Solid and Stone Surfaces	1.5
CRP-434C Stair Trim	1.5
CRP-434D Doors and Door Hardware	1.5
CRP-435C Exit and Electrical Security Devices	1.5

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## Apprenticeship Carpentry, Framing (N)

Associate of Science Degree\*

NAS1056/NAS1056C/NCE1056

Required Courses (25.5-26 units) – 16 courses

Degree Course Requirements	Units
CRP-404C Print Reading - Symbols	2
CRP-421A Orientation - Hand Tools Safety	2
CRP-421B Safety and Health Certifications - Hand & Power Tools Applications	2
CRP-421C Basic Wall Framing	1.5
CRP-421E Tool/Equipment Applications - Emergency Response Procedures	1.5
CRP-422A Commercial Floor Framing	1.5
CRP-422B Basic Stairs	1.5
CRP-422D Exterior Finish Details	1.5
CRP-423B Basic Roof Framing	1.5
CRP-424A Basic Commercial Framing	1.5
CRP-424B Advanced Commercial Framing	1.5
CRP-425C Advanced Stairs	1.5
<b>Electives (6-6.5 units)</b>	
Select four courses from the following:	
CRP-423C Advanced Roof Framing	1.5
CRP-424C Panelized Roofing	1.5
CRP-424D Transit Level/Laser	2
CRP-425D Advanced Print Reading - Digital Planning	1.5
CRP-426B Wall Forming	1.5
CRP-472A Basic Metal Framing	1.5

## Apprenticeship Carpentry, Tilt-Up (N)

Associate of Science Degree\*

NAS1057/NAS1057C/NCE1057

Required Courses (20 units) – 13 courses

Degree Course Requirements	Units
CRP-402B Slabs/Interior-Exterior Footings	1
CRP-403A Tilt-Up Introduction	1
CRP-404A Lifting and Bracing Safety - Lifting Awareness	1.5
CRP-405A Wall-Column Forms/Cutting and Burning	1.5
CRP-405C Specialized Forms and Rigging	1.5
CRP-421A Orientation - Hand Tools Safety	2
CRP-421B Safety and Health Certifications - Hand & Power Tools Applications	2
CRP-424D Transit Level/Laser	2
CRP-427D Stairs and Ramp Forming	1.5
<b>Electives (6 units)</b>	
CRP-404B Poured-in-Place Wall Forms	1.5
CRP-405B Site Work/Curb and Gutter	1.5
CRP-421C Basic Wall Framing	1.5
CRP-422A Commercial Floor Framing	1.5
CRP-422E Commercial Roof Framing	1.5
CRP-425A Foundations and Flatwork	1.5
CRP-426B Wall Forming	1.5
CRP-429A Rigging	1.5

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## Construction Management (N)

Associate of Science Degree\*

NAS906/NAS906C/NCE906

Required Courses (24-25 units) – 8 courses

Degree Course Requirements	Units
CON-62 Print Reading for Construction	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
<b>Electives (6-7 units)</b>	
	<b>Units</b>
CON-63A International Building Code	3
CON-64 Office Procedures and Field Inspections	3
CON-66 National Electrical Code	3
ELE-77 Electrical Theory for Electricians	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

## Construction Technology (N)

Associate of Science Degree\*

NAS532/NAS532C/NCE532

Required Courses (30 units) – 11 courses

Degree Course Requirements	Units
CON-63A International Building Code	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
<b>Electives (6 units)</b>	
	<b>Units</b>
CON-60 Introduction to Construction	3
CON-61 Materials of Construction	3
CON-62 Print Reading for Construction	3
CON-63B Analysis of Revisions to the Uniform Building Code	3
CON-63C Analysis of Revisions to the Uniform Building Code	3
CON-63D Analysis of Revisions to the Uniform Building Code	3
CON-73 Project Planning for Site Construction	3
CON-200 Construction Work Experience	1-4



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# Drafting Technology

## Drafting Technology (N)

Associate of Science Degree\*

NAS539/NAS539C/NCE539

Required Courses (20-21 units) – 9 courses

Degree Course Requirements	Units
DFT-21 Drafting <b>OR</b> ENE-21 Drafting	3
DFT-27 Technical Communications <b>OR</b> ENE-27 Technical Communications	3
DFT-30 Computer Aided Drafting (CAD) <b>OR</b> ENE-30 Computer Aided Drafting (CAD)	3
Choose one from the following:	
DFT-51 Print Reading	2
ENE-51 Print Reading	2
CON-62 Print Reading for Construction	3
DFT-62 Basic Fusion 360	3
Electives (6-8 units)	Units
DFT-60 Math for Engineering Technology <b>OR</b> ENE-60 Math for Engineering Technology <b>OR</b> MAT-36 Trigonometry	3
CON-60 Introduction to Construction	3
ARE-37 Architectural Design I	3
DFT-42 SolidWorks I <b>OR</b> ENE-42 SolidWorks I	3
MAN-56 CNC Machine Set-Up and Operation	4

## Essential CAD (N)

NCE1021

Required Courses (6 units) – 2 courses

Certificate Course Requirements	Units
ENE-30 Computer Aided Drafting (CAD) <b>OR</b> DFT-30 Computer Aided Drafting (CAD)	3
DFT-31 Advanced Computer Aided Design	3

## Essential Fusion 360 (N)

NCE1022

Required Courses (6 units) – 2 courses

Certificate Course Requirements	Units
DFT-62 Basic Fusion 360	3
DFT-63 Advanced Fusion 360	3



## Essential SolidWorks (N)

NCE1024

Required Courses (6 units) – 2 courses

Certificate Course Requirements	Units
DFT-42 SolidWorks I <b>OR</b> ENE-42 SolidWorks I	3
DFT-42B SolidWorks II <b>OR</b> ENE-42B SolidWorks II	3

# Drafting Technology-Noncredit

## Essential CAD (N)

NCC8044

Required Courses (216 hours) – 2 courses

Certificate Course Requirements	Hours
DFT-830 Computer Aided Drafting (CAD)	108
DFT-831 Advanced Computer Aided Drafting (CAD)	108

## Essential Fusion 360 (N)

NCC8045

Required Courses (216 hours) – 2 courses

Certificate Course Requirements	Hours
DFT-862 Basic Fusion 360	108
DFT-863 Advanced Fusion 360	108

## Essential SolidWorks (N)

NCC8047

Required Courses (216 hours) – 2 courses

Certificate Course Requirements	Hours
DFT-842 SolidWorks I	108
DFT-842B SolidWorks II	108

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## Sound and Communication Systems Installer Apprenticeship (N)

Associate of Science Degree\*  
NAS644/NCE644

Required Courses (22-25 units) – 7 courses

Degree Course Requirements	Units
ELE-420 Introduction to Sound/Communication Trade Industry	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 Introduction to Digital Electronics and Signaling Devices	3.5
ELE-425 Management/Alarms/Codes/Circuits	3.5
ELE-499 Electrician Apprenticeship Work Experience	1-4

## Engineering Technology

### 3D Mechanical Drafting (N)

Associate of Science Degree\*  
NAS995/NAS995C/NCE995

Required Courses (23-25 units) – 8-9 courses

Degree Course Requirements	Units
DFT-21 Drafting <b>OR</b> ENE-21 Drafting	3
DFT-27 Technical Communications <b>OR</b> ENE-27 Technical Communications	3
DFT-30 Computer Aided Drafting (CAD) <b>OR</b> ENE-30 Computer Aided Drafting (CAD)	3
DFT-42 SolidWorks I <b>OR</b> ENE-42 SolidWorks I	3
DFT-42B SolidWorks II <b>OR</b> ENE-42B SolidWorks II	3
DFT-51 Print Reading <b>OR</b> ENE-51 Print Reading	2
DFT-52 Geometric Dimensioning & Tolerancing <b>OR</b> ENE-52 Geometric Dimensioning & Tolerancing	3
<b>Electives (3-5 units) Choose list from below:</b>	
DFT-62 Basic Fusion 360	3
MAN-35 Computer Aided Manufacturing-Mastercam	5
MAN-56 CNC Machine Set-Up and Operation	4
MAT-36 Trigonometry	4



### Engineering Graphics (N) NCE796

Required Courses (9 units) – 3 courses

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

### Pre-Engineering (N)

Associate of Science Degree\*  
NAS763, CalGETC NAS765

Required Courses (24-26 units) – 6 courses

Degree Course Requirements	Units
MAT-1A Calculus I	4
MAT-1B Calculus II	4
PHY-4A Mechanics	4
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

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- Arts
- Media
- Communication

# Applied Digital Media and Printing

## Animation (R) CE973

Required Courses (15 units) – 5 courses

Certificate Course Requirements	Units
ART-40A Figure Drawing - Introduction <b>OR</b> ART-41A Figure Painting - Introduction	3
ART-44A Beginning Animation Principles	3
ART-50A Beginning Storyboarding	3
ART-51A Beginning Animation Production	3
<b>Electives: Choose One From List Below (3 units)</b>	
ART-22 Two Dimensional Design	3
ART-24 Three Dimensional Design	3
ART-36A Computer Art - Introduction	3
ADM-67 Multimedia Animation	3
ADM-68A 3D Animation with Maya I	3
ADM 68B 3D Animation with Maya II	3
ADM-69A Motion Graphics and Special Effects with After Effects	3
FTV-48 Short Film Production	3
FTV-74 Production Planning and Management	3
PHO-20 Introduction to Digital Photography	3

## Basic Graphic Communication (R) CE949

Required Courses (20 units) – 7 courses

Certificate Course Requirements	Units
ADM-1 Introduction to Applied Digital Media and Printing	3
ADM-2B Color Printing Systems and Color Management	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: Choose One From List Below (3 units)</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 and Printing	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 II	3
ADM-71A Adobe Photoshop for Image Manipulation	3
ADM-74A Web Design	3
ADM-77A Adobe Illustrator for Graphic Art	3



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

## Graphic Design (N)

Associate of Science Degree\*

NAS647/NAS647C/NCE647

Required Courses (26-27.5 units) – 9 courses

Degree Course Requirements	Units
CIS-66 Web Development I	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-78A Introduction to Adobe Photoshop	3
<b>OR</b>	
CAT-78A Introduction to Adobe Photoshop	3
CAT-78B Advanced Adobe Photoshop	3
CIS-79 Introduction to Adobe Illustrator	3
<b>OR</b>	
CAT-79 Introduction to Adobe Illustrator	3
CIS-81 Introduction to Desktop Publishing using Adobe InDesign	3
CIS-59 Typography and Graphic Design	3
<b>OR</b>	
ADM-62 Typography and Graphic Design	3
ART-22 Two Dimensional Design	3
ART-39 Design and Graphics	3
CIS-44 Portfolio Production	2

## Graphic Design and Digital Media (R)

Associate of Science Degree\*

AS950/AS950C/CE950

Required Courses (37 units) – 13 courses

Degree Course Requirements	Units
ADM-1 Introduction to Applied Digital Media and Printing	3
ADM-2A Color Systems and File Management	2
ADM-2B Color Printing Systems and Color Management	2
ADM-55 Business Management for Graphic Communications	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: Choose 3 units from one emphasis.	Units
<b>Motion Graphics Emphasis:</b>	
ADM-69A Motion Graphics and Special Effects with After Effects	3
<b>OR</b>	
ADM-69B Motion Graphics and Special Effects with After Effects, Advanced	3
<b>Digital Animation Emphasis:</b>	
ADM-67 Multimedia Animation	3
<b>OR</b>	
ADM-68A 3D Animation with Maya I	3
<b>Digital Illustration Emphasis:</b>	
ART-36A Computer Art - Introduction	3
<b>OR</b>	
ADM-66 Visual Storytelling	3
<b>Web Design Emphasis:</b>	
ADM-74A Web Design	3
<b>OR</b>	
ADM-74B Web Design II	3

## Graphic Design and Printing (R)

Associate of Science Degree\*

AS653/AS653C/CE653

Required Courses (34 units) – 12 courses

Degree Course Requirements	Units
ADM-1 Introduction to Applied Digital Media and Printing	3
ADM-2A Color Systems and File Management	2
ADM-2B Color Printing Systems and Color Management	2
ADM-55 Business Management 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
<b>Electives: Choose 6 units from one emphasis.</b>	
<b>Commercial Printing Emphasis:</b>	
ADM-84B Screen Printing, Advanced	3
ADM-85B Commercial Printing, Advanced	3
<b>Packaging Design Emphasis:</b>	
ADM-77B Adobe Illustrator, Advanced	3
ADM-83 Packaging Design	3

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

<b>Graphic Design Emphasis:</b>	
ADM-62 Typography and Graphic Design	3
Choose one from the following:	
ADM-63B Design for Electronic Publication	3
ADM-71B Adobe Photoshop, Advanced	3
ADM-77B Adobe Illustrator, 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-69A Motion Graphics and Special Effects with After Effects	3
ADM-69B Motion Graphics and Special Effects with After Effects, Advanced	3
ADM-74A Web Design	3
ADM-74B Web Design II	3
ART-22 Two Dimensional 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

### Graphic Art and Visual Storytelling (R) CE1102

Required Courses (18 units) – 6 courses

Certificate Course Requirements	Units
ADM-63A Design for Print Publication	3
ADM-71A Adobe Photoshop for Image Manipulation <b>OR</b> ART-36A Computer Art-Introduction	3
ADM-71B Adobe Photoshop, Advanced <b>OR</b> ART-36B Computer Art-Intermediate	3
ADM-77A Adobe Illustrator for Graphic Art	3
ADM-77B Adobe Illustrator, Advanced	3
ADM-66 Visual Storytelling	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-69A Motion Graphics and Special Effects with After Effects	3
ADM-71A Adobe Photoshop for Image Manipulation	3
ADM-68B 3D Animation with Maya II <b>OR</b> ADM-69B Motion Graphics and Special Effects with After Effects, Advanced	3

### Packaging Design and Printing (R) CE1103

Required Courses (17 units) – 6 courses

Certificate Course Requirements	Units
ADM-1 Introduction to Applied Digital Media and Printing	3
ADM-2B Color Printing Systems and Color Management	2
ADM-77A Adobe Illustrator for Graphic Art	3
ADM-77B Adobe Illustrator, Advanced	3
ADM-83 Packaging Design	3
ADM-85A Commercial Printing	3

## Applied Digital Media and Printing-Noncredit

### Graphic Design and Promotional Printing Entrepreneur (R)

CC8042

Required Courses (64 hours) – 4 courses

Certificate Course Requirements	Hours
ADM-801 Design Process for Graphic Design and Printing Entrepreneur	16
ADM-802 Adobe Illustrator for Graphic Design and Printing Entrepreneur	16
ADM-803 Adobe Photoshop for Graphic Design and Printing Entrepreneur	16
ADM-804 Promotional Printing for Graphic Design and Printing Entrepreneur	16

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# Film, Television and Video

## Basic Television Production (R)

CE996

Required Courses (14 units) – 5 courses

Certificate Course Requirements	Units
FTV-38A Beginning Film, Television and Video Production Project	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

## Film, Television and Electronic Media (R)

Associate in Science for Transfer (ADT)\*\*

CalGETC AS994

Required Courses (18-18.5 units) – 6 courses

Degree Course Requirements	Units
FTV-38A Beginning Film, Television and Video Production Project	3
FTV-41 Introduction to Telecommunications	3
FTV-48 Short Film Production	3
FTV-71A Beginning Sound Engineering for Audio in Media	3
FST-1 Introduction to Film Studies <b>OR</b> FST-1H Honors Introduction to Film Studies	3 3
<b>Select one course from the list below:</b>	
FST-2 Introduction to Television Studies	3
FST-3 Introduction to International Cinema	3
FST-4 Introduction to Film Genres	3
FST-5 Fiction and Film: Adaptation	3
FTV-12 History of American Film	3
FTV-42 Writing for Broadcast Television	3
FTV-44A Beginning Television Production	3.5
FTV-64A Beginning Digital Editing Principles and Techniques	3
FTV-65 The Director's Art in Filmmaking	3
FTV-72 Introduction to Lighting Design for Film and Television	3
FTV-79 Introduction to Special Effects Make-Up for Film, Television and Video	3

\*\*Associate in Science for Transfer Degree

The Associate in Science in Film, Television, and Electronic Media for Transfer degree will be awarded upon completion of 60 California State University (CSU) transferable units including the above major requirements and the California General Education Transfer Curriculum (Cal-GETC) requirements and with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of 'C' or better (or a 'P' if taken as Pass/No Pass).

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## Film, Television and Video Production Specialist (R)

Associate of Science Degree\*

AS641/AS641C/CE641

Required Courses (29-30 units) – 11-12 courses

Degree Course Requirements	Units
FTV-41 Introduction to Telecommunications	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
Electives - Choose from list A below	3-4
Emphasis - Select 9 units from one emphasis - Production Emphasis <b>OR</b> Sound Engineering Emphasis	9
<b>List A: Choose 3-4 units from the following:</b>	
FTV-38A Beginning Film, Television and Video Production Project	3
FTV-38B Advanced Film, Television and Video Production Project	3
FTV-200 Film, Television and Video Work Experience	1-4
<b>Production Emphasis: Choose 9 units from the following:</b>	
ADM-69A Motion Graphics and Special Effects with After Effects	3
ADM-71A Adobe Photoshop for Image Manipulation	3
ENGL-38A Screenwriting: Beginning	3
ENGL-38B Screenwriting: Intermediate	3
ENGL-38C Screenwriting: Advanced	3
FTV-12 History of American Film	3
FTV-51B Film, Television and Video Laboratory II	1
FTV-52 Film, Television and Video Laboratory	2
FTV-72 Introduction to Lighting Design for Film and Television	3
FTV-74 Production Planning and Management	3
FTV-77 Intermediate Lighting Techniques for Film, TV and Video	3
FTV-79 Introduction to Special Effects Makeup for Film, Television and Video	3
PHO-8 Introduction to Film Photography	3
<b>Sound Engineering Emphasis: Choose 9 units from the following:</b>	
FTV-53 Telecommunications Laboratory	3
MUS-8A Music Technology I	3
MUS-8B Music Technology II	3

# Game Development

## 3D Game Modeling and Animation (N)

Associate of Science Degree\*  
**NAS972/NAS972C/NCE972**

**Required Courses (27 units) – 9 courses**

Degree 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-5A Concept Art	3
GAM-6A 3D Digital Modeling	3
GAM-6B 3D Animation	3
GAM-7 Game Studio	3
GAM-8 Current Topics in Game Development	3

## Game Concept Art (N)

Associate of Science Degree\*  
**NAS971/NAS971C/NCE971**

**Required Courses (27 units) – 9 courses**

Degree 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-5A Concept Art	3
GAM-5B Advanced Concept Art	3
GAM-6A 3D Digital Modeling	3
GAM-7 Game Studio	3
GAM-8 Current Topics in Game Development	3

## Game Design (N)

Associate of Science Degree\*  
**NAS2005/NAS2005C/NCE2005**

**Required Courses (27 units) – 9 courses**

Degree 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 Development Core (N)

Associate of Science Degree\*  
**NAS970/NAS970C/NCE970**

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

Degree 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-5A Concept Art	3
GAM-6A 3D Digital Modeling	3
GAM-7 Game Studio	3

## Game Programming (N)

Associate of Science Degree\*  
**NAS2006/NAS2006C/NCE2006**

**Required Courses (27 units) – 9 courses**

Degree 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



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# Journalism

## Journalism (R)

Associate in Science for Transfer (ADT)\*\*

CalGETC AA671

**Required Courses (18-19 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/Newswriting	3
JOU-20B Newspaper: Intermediate	3
JOU-150 Introduction to Public Relations	3
PHO-12 Photojournalism	3
<b>List B: Choose 6-7 units</b>	
ADM-1 Introduction to Applied Digital Media and Printing	3
COMM-3 Critical Thinking, Argumentative Writing, and Debate	3
ENGL-1B Critical Thinking and Writing	4
<b>OR</b> ENGL-1BH Honors Critical Thinking and Writing	4
JOU-2 Intermediate Reporting/Newswriting	3
JOU-150 Introduction to Public Relations	3
PHO-12 Photojournalism	3
PHO-20 Introduction to Digital Photography	3

\*\*Associate in Art for Transfer Degree

The Associate in Art in Journalism for Transfer degree will be awarded upon completion of 60 California State University (CSU) transferable units including the above major requirements and the California General Education Transfer Curriculum (Cal-GETC) requirements and with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of 'C' or better (or a 'P' if taken as Pass/No Pass).

# Music Industry Studies

## Audio and Music Technology (R)

Associate of Arts Degree\*

AA1049/AA1049C

**Required Courses (34 units)** – See College catalog for degree requirements.

Degree Course Requirements	Units
MUS-3 Fundamentals of Music	4
MUS-32A Class Piano I	1
MUS-8A Music Technology I	3
MUS-101 Introduction to Music Technology	3
MUS-4 Music Theory I	4
MUS-32B Class Piano II	1
MUS-8B Music Technology II	3
MUS-98 Careers in Music	3
MUS-5 Music Theory II	4
ECO-4 Introduction to Economics	3
MUS-89 Music of Multicultural America	3
<b>OR</b> MUS-89H Honors Music of Multicultural America	3
Choose one from the following:	
MUS-30 Class Voice	1
MUS-32C Class Piano III	1
MUS-37 Class Guitar	1
Choose one from the following:	
MUS-30 Class Voice	1
MUS-32D Class Piano IV	1
MUS-37 Class Guitar	1
<b>Elective Courses (5 units from the following):</b>	
CIS-26A Cisco Networking Academy 1A	2
FTV-67 Introduction to Video Production	2
FTV-72 Introduction to Lighting Design for Film and Television	3
MUS-9 Film Scoring and Film Sound	3
MUS-10 Digital Music Production and Mixing	3
MUS-11 Studio Recording Techniques I	2
MUS-P11 Live Sound Techniques I	2
MUS-P52A Songwriting I	4
THE-48 Theatrical Lighting Design	3

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## Audio Production (N)

Associate of Science Degree\*

NAS684/NAS684C/NCE684

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

Degree 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
MUS-3 Fundamentals of Music	4
MUS-93 The Business of Music	3
<b>Elective Courses</b>	
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
<b>Elective Courses (4-6 units from the following):</b>	
COMM-9 Interpersonal Communication	3
MIS-200 Music Industry Studies Work Experience	1-4
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



## Music Technology (R)

CE928

Required Courses (16-17 units) – 6 courses

Certificate Course Requirements	Units
Choose one from the following:	
MUS-9 Film Scoring and Film Sound	3
MUS-11 Studio Recording Techniques I	2
MUS-P11 Live Sound Techniques I	2
MUS-3 Fundamentals of Music	4
MUS-8A Music Technology I	3
MUS-8B Music Technology II	3
MUS-10 Digital Music Production and Mixing	3
<b>Elective Courses (1 unit from the following):</b>	
MUS-32A Class Piano I	1
MUS-32B Class Piano II	1
MUS-32C Class Piano III	1
MUS-32D Class Piano IV	1



For Types of Careers,  
Salary Snapshots,  
and Industry Sector  
Pathways, Scan Here!

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## Performance (N)

Associate of Science Degree\*

NAA645/NAA645C/NCE645

Required Courses (36-37 units) – 12-14 courses

Degree 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
MUS-3 Fundamentals of Music	4
MUS-39 Applied Music II (2x)	6
MUS-79 Intermediate Applied Music II (2x)	6
MUS-93 The Business of Music	3
<b>Complete one of the following options:</b>	
MIS-11A Studio Arts Ensemble (2x) <b>AND</b> MIS-11B Studio Arts Ensemble (2x)	4
MUS-41 Chamber Singers (4x)	8
MUS-41 Chamber Singers (2x) <b>AND</b> MIS-81 Concert Singers (2x)	4
<b>Elective Courses (3-4 units from the following):</b>	<b>Units</b>
MIS-3 Digital Audio Production	4
MIS-7 Introduction to Music Technology	3
MUS-4 Music Theory I	4
MUS-23 History of Rock and Roll	3
MUS-32A Class Piano I	1
MUS-32B Class Piano II	1
MUS-32C Class Piano III	1

# Photography

## Crime Scene Photography Essentials (R) CE1026

Required Courses (9 units) – 3 courses

Certificate Course Requirements	Units
ADJ-27 Forensic & Crime Scene Photography <b>OR</b> PHO-27 Forensic & Crime Scene Photography	3
PHO-20 Introduction to Digital Photography	3
<b>Elective Courses (3 units from the following):</b>	
PHO-9 Intermediate Photography	3
PHO-23 Drone Photography	3

## Entrepreneurial Photography (R)

Associate of Science Degree\*

AS1037/AS1037C/CE1037

Required Courses (18 units) – 6 courses

Degree Course Requirements	Units
PHO-8 Introduction to Photography <b>OR</b> PHO-20 Introduction to Digital Photography	3
PHO-9 Intermediate Photography	3
PHO-14 Lighting for Photographers	3
PHO-19 Color Correction and the Photographic Portfolio	3
<b>Elective Courses (6 units from the following):</b>	
PHO-15 Wedding and Event Photography	3
PHO-18 Photoshop, Lightroom, and Printing for Photographers	3
PHO-22 Photography for Social Media	3
PHO-67 Business Practices for Photographers	3



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## Photography (R)

Associate of Science Degree\*

AS592/AS592C/CE592

Required Courses (18 units) – 6 courses

Degree Course Requirements	Units
PHO-8 Introduction to Photography <b>OR</b>	3
PHO-20 Introduction to Digital Photography	3
PHO-9 Intermediate Photography	3
PHO-14 Lighting for Photographers	3
PHO-19 Color Correction and the Photographic Portfolio	3
<b>Elective Courses (6 units from the following):</b>	
PHO-7 Medium and Large Format Film Photography	3
PHO-11 Commercial and Advertising Photography	3
PHO-12 Photojournalism	3
PHO-23 Drone Photography	3
PHO-27 Forensic & Crime Scene Photography	3

## Photojournalism Essentials (R)

CE1030

Required Courses (12 units) – 4 courses

Certificate Course Requirements	Units
PHO-12 Photojournalism	3
PHO-14 Lighting for Photographers	3
PHO-20 Introduction to Digital Photography	3
PHO-67 Business Practices for Photographers	3

## Professional Photography Essentials (R)

CE1031

Required Courses (9 units) – 3 courses

Certificate Course Requirements	Units
PHO-14 Lighting for Photographers	3
PHO-20 Introduction to Digital Photography	3
PHO-67 Business Practices for Photographers	3

## Special Event Photography Essentials (R)

CE1032

Required Courses (12 units) – 4 courses

Certificate Course Requirements	Units
PHO-15 Wedding and Event Photography	3
PHO-19 Color Correction and the Photographic Portfolio	3
PHO-20 Introduction to Digital Photography	3
PHO-67 Business Practices for Photographers	3



## Simulation and Gaming

### Simulation and Gaming: Game Art (M)

Associate of Science Degree\*

MAS739/MAS739C/MCE739

Required Courses (36-37 units) – 11 courses

Degree 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-35 Introduction to Simulation and Game Development	3
CIS-38A Simulation and Gaming/3D Modeling for Real-Time Interactive Simulations	4
CIS-38B Simulation and Gaming/3D Animation for Real-Time Interactive Simulations	4
CIS-38C Simulation and Gaming/3D Dynamics and Rendering for Real-Time Interactive Simulations	4
CAT-78A Introduction to Adobe Photoshop <b>OR</b>	3
CIS-78A Introduction to Adobe Photoshop	3
<b>Elective Courses (6-7 units)</b>	
ART-23 Color Theory and Design	3
ART-36A Computer Art-Introduction	3
CAT-79 Introduction to Adobe Illustrator <b>OR</b>	3
CIS-79 Introduction to Adobe Illustrator	3
CIS-37 Beginning Level Design/Computer Games	3
CIS-39 Current Techniques in Game Art	4
CIS-54A Introduction to Animate	3

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# Theatre

## Acting (R)

CE1050

Required Courses (18 units) – 7 courses

Certificate Course Requirements	Units
THE-5 Theater Practicum	3
<b>OR</b>	
THE-6 Advanced Theater Practicum	3
THE-30 Voice and Movement for the Stage	2
THE-32 Acting Fundamentals: Theater Games and Exercises	3
THE-38 Auditioning for the Stage	1
<b>Elective Courses (9 units from the following):</b>	
THE-33 Scene Acting-Creating a Role	3
THE-34 Scene Study in Various Theatrical Styles	3
THE-35 Classical Acting with Emphasis in Shakespearean Verse	3
THE-36 Improvisational Acting	3
THE-39 Acting for the Camera	3

## Musical Theatre (R)

CE895

Required Courses (18-20 units) – 8-10 courses

Certificate Course Requirements	Units
<b>Musical Theatre Techniques (Choose 9 units from the following):</b>	
THE-37 Musical Theatre Techniques	3
THE-55 Beginning Musical Theatre I	3
THE-56 Beginning Musical Theatre II	3
THE-57 Intermediate Musical Theatre I	3
THE-58 Intermediate Musical Theatre II	3
<b>Musical Theatre Practicum (Choose 3 units from the following):</b>	
THE-5 Theater Practicum	3
THE-6 Advanced Theater Practicum	3
<b>Dance Techniques (Choose 2 units from the following):</b>	
DAN-D21 Ballet, Beginning	1
DAN-D22 Ballet, Intermediate	1
DAN-D23 Ballet, Advanced	1

DAN-D43 Tap, Beginning	1
DAN-D44 Tap, Intermediate	1
DAN-D60 Musical Theatre Dance	1
<b>Music (Choose 2-4 units from the following):</b>	
MUS-3 Fundamentals of Music	4
MUS-32A Class Piano I	1
MUS-32B Class Piano II	1
MUS-32C Class Piano III	1
MUS-32D Class Piano IV	1
<b>Applied Music (Choose 2 units from the following):</b>	
MUS-38 Beginning Applied Music I	2
MUS-78 Beginning Applied Music II	2

## 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



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• Automotive



## Automotive Technology

### Automotive Technology - Collision Repair (R)

Associate of Science Degree\*

AS953/AS953C/CE953

Required Courses (20 units) – 5 courses

Degree 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
<b>Elective Courses (4 units)</b>	
AUB-52 Automotive Refinishing and Paint	4
AUB-53 Automotive Collision Repair Special Projects	4
AUB-59A Automotive Collision Service and Repair	2

### Automotive Refinishing and Paint (R)

Associate of Science Degree\*

AS955/AS955C/CE955

Required Courses (20 units) – 5 courses

Degree 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
<b>Elective Courses (4 units)</b>	
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 - Trim and Upholstery (R)

Associate of Science Degree\*

AS516/AS516C/CE516

Required Courses (20 units) – 5-6 courses

Degree 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
<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

### Automotive Electrical and Electronics Specialist (R)

Associate of Science Degree\*

AS991/AS991C/CE991

Required Courses (24 units) – 6 courses

Degree Course Requirements	Units
AUT-6A Automotive Electrical Systems I	4
AUT-6B Automotive Electrical Systems II	4
AUT-7 Automotive Heating and Air Conditioning	4
AUT-8A Automotive Engine Performance I	4
AUT-8B Automotive Engine Performance II	4
AUT-50 Automotive Principles	4

### Automotive Engine Performance Specialist (R)

Associate of Science Degree\*

AS974/AS974C/CE974

Required Courses (20 units) – 5 courses

Degree Course Requirements	Units
AUT-6A Automotive Electrical Systems I	4
AUT-8A Automotive Engine Performance I	4
AUT-8B Automotive Engine Performance II	4
AUT-8C Automotive Emission Controls	4
AUT-50 Automotive Principles	4

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

## Automotive Hybrid and Electrical Vehicles (R)

Associate of Science Degree\*

AS954/AS954C/CE954

Required Courses (24 units) – 6 courses

Degree Course Requirements	Units
AUT-6A Automotive Electrical Systems	4
AUT-8A Automotive Engine Performance I	4
AUT-8B Automotive Engine Performance II	4
AUT-13A Introduction to Hybrid and Electric Vehicle Technology	4
AUT-13B Advanced Hybrid and Electric Vehicle Technology	4
AUT-50 Automotive Principles	4

## Automotive Powertrain Specialist (R)

Associate of Science Degree\*

AS990/AS990C/CE990

Required Courses (24 units) – 6 courses

Degree Course Requirements	Units
AUT-1A Automotive Engine Repair (Upper End)	4
AUT-1B Automotive Engine Repair (Lower End)	4
AUT-2 Automotive Automatic Transmissions/Transaxles	4
AUT-3 Automotive Manual Drivetrain Systems	4
AUT-6A Automotive Electrical Systems	4
AUT-50 Automotive Principles	4

## Automotive Undercar Specialist (R)

Associate of Science Degree\*

AS975/AS975C/CE975

Required Courses (20 units) – 5 courses

Degree Course Requirements	Units
AUT-4A Automotive Steering and Suspension	4
AUT-4B Advanced Suspension and Brake System	4
AUT-5 Automotive Brakes	4
AUT-6A Automotive Electrical Systems I	4
AUT-50 Automotive Principles	4



For Types of Careers,  
Salary Snapshots,  
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# Automotive Technology- Noncredit

## ASE Engine Performance and Electric Specialist (R)

CC8022

Required Courses (90 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	36

## 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



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• Business Operations  
• Logistics

# Business Administration

## Business Administration 2.0 (MNR)

Associate in Science for Transfer (ADT)\*\*

CalGETC MAS1002

CalGETC NAS1002

CalGETC AS1002

**Required Courses (26 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
Choose one from the following:	
BUS-10 Introduction to Business	3
BUS-10H Honors Introduction to Business	3
BUS-24 Business Communication	3
BUS-18A Business Law I	3
ECO-7 Principles of Macroeconomics <b>OR</b> ECO-7H Honors Principles of Macroeconomics	3
ECO-8 Principles of Microeconomics <b>OR</b> ECO-8H Honors Principles of Microeconomics	3
Choose one from the following:	
MAT-1A Calculus I	4
MAT-1AH Honors Calculus I	4
MAT-5 Calculus for Business and Life Sciences	4
STAT-C1000‡ Introduction to Statistics‡ <b>OR</b> STAT-C1000H‡ Introduction to Statistics - Honors‡	4

‡PSYC/SOC-48 is an approved course substitution for STAT-C1000/C1000H and may be used to satisfy the ADT statistics requirement. However, STAT-C1000/C1000H is the recommended statistics course for this program since it is more widely accepted for the Business Administration major across the CSU campuses.

\*\*Associate in Science for Transfer Degree

Associate Degree for Transfer in Business Administration 2.0 will be awarded upon completion of 60 California State University (CSU) transferable units including the above major requirements and the California General Education Transfer Curriculum (Cal-GETC) requirements and with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of "C" or better (or a "P" if taken as Pass/No Pass).



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## Business Administration-Accounting (M)

Associate of Science Degree\*

MAS523/MAS523C/MCE523

**Required Courses (30 units) – 10 courses**

Degree Course Requirements	Units
ACC-1A Principles of Accounting I	3
BUS-10 Introduction to Business <b>OR</b> BUS-10H Honors 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
Choose one from the following:	
CIS-1A Introduction to Computer Information Systems	3
CIS-3 Computer Applications for Business	3
CAT-3 Computer Applications for Business	3
<b>Concentration Requirements:</b>	<b>Units</b>
ACC-1B Principles of Accounting II	3
<b>Select another 9 units from the following:</b>	
ACC-62 Payroll Accounting	3
ACC-63 Income Tax Accounting	3
ACC-65 Computerized Accounting	3
ACC-200 Accounting Work Experience	1-4
BUS-47 Applied Business and Management Ethics <b>OR</b> MAG-47 Applied Business and Management Ethics	3

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## Business Administration-Accounting (NR)

Associate of Science Degree\*

NAS523/NAS523C/NCE523

AS523/AS523C/CE523

Required Courses (30 units) – 10 courses

Degree Course Requirements	Units
ACC-1A Principles of Accounting I	3
BUS-10 Introduction to Business	3
<b>OR</b> BUS-10H Honors Introduction to Business	3
BUS-18A Business Law I	3
BUS-20 Business Mathematics	3
BUS-22 Management Communications	3
<b>OR</b> BUS-24 Business Communications	3
Choose one from the following:	
CIS-1A Introduction to Computer Information Systems	3
CIS-3 Computer Applications for Business	3
CAT-3 Computer Applications for Business	3
<b>Concentration Requirements:</b>	<b>Units</b>
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-47 Applied Business and Management Ethics	3
<b>OR</b> MAG-47 Applied Business and Management Ethics	3



## Business Administration-General Business (MNR)

Associate of Science Degree\*

MAS524/ MAS524C/MCE524

NAS524/NAS524C/NCE524

AS524/AS524C/CE524

Required Courses (30 units) – 10 courses

Degree Course Requirements	Units
ACC-1A Principles of Accounting I	3
BUS-10 Introduction to Business	3
<b>OR</b> BUS-10H Honors Introduction to Business	3
BUS-18A Business Law I	3
BUS-20 Business Mathematics	3
BUS-22 Management Communications	3
<b>OR</b> BUS-24 Business Communications	3
Choose one from the following:	
CIS-1A Introduction to Computer Information Systems	3
CIS-3 Computer Applications for Business	3
CAT-3 Computer Applications for Business	3
<b>Select another 12 units from the following:</b>	
ACC-1B Principles of Accounting II	3
BUS-18B Business Law II	3
BUS-40 Introduction to Global Business	3
BUS-47 Applied Business and Management Ethics	3
<b>OR</b> 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



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## Business Administration-Global Enterprise (R)

Associate of Science Degree\*

AS1036/AS1036C/CE1036

Required Courses (30 units) – 10 courses

Degree Course Requirements	Units
ACC-1A Principles of Accounting I	3
BUS-10 Introduction to Business <b>OR</b> BUS-10H Honors 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
BUS-40 Introduction to Global Business	3
BUS-43 Global Marketing	3
BUS-46 Global Trade	3
BUS-48 Global Management	3
Choose one from the following:	
CIS-1A Introduction to Computer Information Systems	3
CIS-3 Computer Applications for Business	3
CAT-3 Computer Applications for Business	3

## Business Administration-Human Resources (R)

Associate of Science Degree\*

AS623/AS623C/CE623

Required Courses (30 units) – 10 courses

Degree Course Requirements	Units
ACC-1A Principles of Accounting I	3
BUS-10 Introduction to Business <b>OR</b> BUS-10H Honors 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
Choose one from the following:	
CIS-1A Introduction to Computer Information Systems	3
CIS-3 Computer Applications for Business	3
CAT-3 Computer Applications for Business	3

Concentration Requirements:	Units
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-70 Introduction to Organizational Behavior	3

## Business Administration-Management (MNR)

Associate of Science Degree\*

MAS521/ MAS521C/MCE521

NAS521NAS521C/NCE521

AS521/AS521C/CE521

Required Courses (30 units) – 10 courses

Degree Course Requirements	Units
ACC-1A Principles of Accounting I	3
BUS-10 Introduction to Business <b>OR</b> BUS-10H Honors 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
Choose one from the following:	
CIS-1A Introduction to Computer Information Systems	3
CIS-3 Computer Applications for Business	3
CAT-3 Computer Applications for Business	3
<b>Concentration Requirements:</b>	
MAG-44 Principles of Management	3
<b>Select another 9 units from the following:</b>	
BUS-47 Applied Business and Management Ethics <b>OR</b> MAG-47 Applied Business and Management Ethics	3
BUS-48 Global Management	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

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

## Business Administration-Marketing (M)

Associate of Science Degree\*

MAS525/MAS525C/MCE525

Required Courses (30 units) – 10 courses

Degree Course Requirements	Units
ACC-1A Principles of Accounting I	3
BUS-10 Introduction to Business <b>OR</b> BUS-10H Honors 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
Choose one from the following:	
CIS-1A Introduction to Computer Information Systems	3
CIS-3 Computer Applications for Business	3
CAT-3 Computer Applications for Business	3
<b>Concentration Requirements:</b>	<b>Units</b>
MKT-20 Principles of Marketing	3
<b>Electives (9 units)</b>	<b>Units</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

## Business Administration-Marketing (R)

Associate of Science Degree\*

AS525/AS525C/CE525

Required Courses (30 units) – 10 courses

Degree Course Requirements	Units
ACC-1A Principles of Accounting I	3
BUS-10 Introduction to Business <b>OR</b> BUS-10H Introduction to Business Honors	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	3
MKT-40 Advertising	3
MKT-43 Digital Marketing	3
MKT-20 Principles of Marketing <b>OR</b> MKT-25 Marketing for Professionals	3
<b>Electives (3 units)</b>	<b>Units</b>
BUS-43 Global Marketing	3
MKT-41 Techniques of Selling	3
MKT-42 Retail Management	3



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## Business Administration - Real Estate (MNR)

Associate of Science Degree\*

MAS527/MAS527C/MCE527

NAS527/NAS527C/NCE527

AS527/AS527C/CE527

Required Courses (30 units) – 10 courses

Degree Course Requirements	Units
ACC-1A Principles of Accounting I	3
BUS-10 Introduction to Business <b>OR</b> BUS-10H Honors 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
Choose one from the following:	
CIS-1A Introduction to Computer Information Systems	3
CIS-3 Computer Applications for Business	3
CAT-3 Computer Applications for Business	3
<b>Select another 12 units from the following:</b>	<b>Units</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

## 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

GIG: The Solopreneurs Adventure (R)  
CC8004

Required Courses (45 hours) – 3 courses

Certificate Course Requirements	Hours
BUS-813 Solopreneurs: Personal Finance and QuickBooks Quickstart	9
BUS-815 Business Skills: Professional Online Presence	9
BUS-819 Business Success Seminar	27

Global Industry (R)  
CC8040

Required Courses (216 hours) – 4 courses

Certificate Course Requirements	Hours
BUS-840 Introduction to Global Business	54
BUS-843 Global Marketing	54
BUS-846 Global Trade	54
BUS-848 Global Management	54

General Business (R)  
CE1062

Required Courses (15 units) – 5 courses

Certificate Course Requirements	Units
BUS-10 Introduction to Business <b>OR</b> BUS-10H Honors Introduction to Business	3
BUS-47 Applied Business and Management Ethics <b>OR</b> MAG-47 Applied Business and Management Ethics	3
BUS-48 Global Management	3
MAG-40 The American Management Association Certified Professional in Management	3
MKT-20 Principles of Marketing	3

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## 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	1-4

## Global Industry (R)

CE1042

Required Courses (15 units) – 5 courses

Certificate Course Requirements	Units
BUS-10 Introduction to Business <b>OR</b> BUS-10H Honors 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

## Human Resources (R)

CE868

Required Courses (15 units) – 5 courses

Certificate Course Requirements	Units
BUS-10 Introduction to Business <b>OR</b> BUS-10H Honors Introduction to Business	3
BUS-47 Applied Business and Management Ethics <b>OR</b> MAG-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



## Industry Marketing (R)

CE879

Required Courses (15 units) – 5 courses

Certificate Course Requirements	Units
BUS-10 Introduction to Business <b>OR</b> BUS-10H Honors Introduction to Business	3
Choose one from the following:	
BUS-43 Global Marketing	3
MKT-41 Techniques of Selling	3
MKT-42 Retail Management	3
MKT-25 Marketing for Professionals	3
MKT-40 Advertising	3
MKT-43 Digital Marketing	3

## Management (R)

CE1063

Required Courses (15 units) – 5 courses

Certificate Course Requirements	Units
BUS-10 Introduction to Business <b>OR</b> BUS-10H Honors Introduction to Business	3
BUS-22 Management Communications	3
BUS-47 Applied Business and Management Ethics <b>OR</b> MAG-47 Applied Business and Management Ethics	3
BUS-48 Global Management	3
MAG-40 The American Management Association Certified Professional in Management	3

## Project Management Professional (M)

MCE984

Required Courses (10 units) – 3 courses

Certificate Course Requirements	Units
BUS-10 Introduction to Business	3
BUS-77A Introduction to Project Management	4
BUS-77B Project Management CAPM and PMP Exam Prep	3



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## Real Estate Practice (R)

CE873

Required Courses (15 units) – 5 courses

Certificate Course Requirements	Units
BUS-10 Introduction to Business <b>OR</b> BUS-10H Honors 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>	<b>Units</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

## 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

## Small Business Accounting (MNR)

MCE859/NCE859/CE859

Required Courses (6 units) – 2 courses

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

# Entrepreneurship

## Entrepreneurship (MN)

Associate of Science Degree\*

MAS531/MAS531C

NAS531/NAS531C

Required Courses (24 units) – 8 courses

Degree Course Requirements	Units
ENP-50 Introduction to Entrepreneurship	3
ENP-51 Entrepreneurship Basics	3
ENP-52 Starting a Business with Limited Resources	3
ENP-53 Money, Finance and Accounting for Entrepreneurs	3
ENP-54 Business Model Canvas and Presentations for Entrepreneurs	3
ENP-55 Entrepreneurial Simulation - Capstone	3
ENP-70 Building an Entrepreneurial Team	3
ENP-71 Solopreneurship	3

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## Entrepreneurship (R)

Associate of Science Degree\*

AS531/AS531C/CE531

Required Courses (24 units) – 9 courses

Degree Course Requirements	Units
BUS-10 Introduction to Business <b>OR</b> BUS-10H Honors Introduction to Business	3
BUS-30 Entrepreneurship and Small Business Management	3
CAT-3 Computer Applications for Business <b>OR</b> CIS-3 Computer Applications for Business	3
MKT-20 Principles of Marketing	3
<b>Select four courses, at least one from each cluster:</b>	
<b>Cluster 1:</b>	
ACC-55 Applied Accounting/Bookkeeping <b>OR</b> CAT-55 Applied Accounting/Bookkeeping	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
BUS-47 Applied Business and Management Ethics <b>OR</b> MAG-47 Applied Business and Management Ethics	3
MAG-51 Elements of Supervision	3
MAG-53 Human Relations	3
MAG-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

## Entrepreneurship (R)

CE874

Required Courses (15 units) – 5 courses

Certificate Course Requirements	Units
BUS-10 Introduction to Business <b>OR</b> BUS-10H Honors 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

## Entrepreneurial Essentials (MNR)

MCE977/NCE977/CE977

Required Courses (12 units) – 4 courses

Certificate Course Requirements	Units
ENP-50 Introduction to Entrepreneurship	3
ENP-51 Entrepreneurship Basics	3
ENP-52 Starting a Business with Limited Resources	3
ENP-53 Money, Finance and Accounting for Entrepreneurs	3

## Entrepreneurial Foundations (MNR)

MCE978/NCE978/CE978

Required Courses (15 units) – 5 courses

Certificate Course Requirements	Units
ENP-50 Introduction to Entrepreneurship	3
ENP-51 Entrepreneurship Basics	3
ENP-53 Money, Finance and Accounting for Entrepreneurs	3
ENP-54 Business Model Canvas and Presentations for Entrepreneurs	3
ENP-55 Entrepreneurial Simulation - Capstone	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/Model	2
BUS-14 Social Media and Electronic Marketing for Entrepreneurs	3
BUS-30 Entrepreneurship and Small Business Management	3



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## 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

## Entrepreneurship and the Team (MNR) MCE979/NCE979/CE979

Required Courses (18 units) – 6 courses

Certificate Course Requirements	Units
ENP-50 Introduction to Entrepreneurship	3
ENP-51 Entrepreneurship Basics	3
ENP-53 Money, Finance and Accounting for Entrepreneurs	3
ENP-54 Business Model Canvas and Presentations for Entrepreneurs	3
ENP-70 Building an Entrepreneurial Team	3
ENP-71 Solopreneurship	3



## Entrepreneurship-Noncredit

### Entrepreneurial Essentials (MNR) MCC8035/NCC8035/CC8035

Required Courses (216 hours) – 4 courses

Certificate Course Requirements	Hours
ENP-850 Introduction to Entrepreneurship	54
ENP-851 Entrepreneurship Basics	54
ENP-852 Starting a Business with Limited Resources	54
ENP-853 Money, Finance and Accounting for Entrepreneurs	54

### Entrepreneurial Foundations (MNR) MCC8036/NCC8036/CC8036

Required Courses (270 hours) – 5 courses

Certificate Course Requirements	Hours
ENP-850 Introduction to Entrepreneurship	54
ENP-851 Entrepreneurship Basics	54
ENP-853 Money, Finance and Accounting for Entrepreneurs	54
ENP-854 Business Model Canvas and Presentations for Entrepreneurs	54
ENP-855 Entrepreneurial Simulation - Capstone	54

### Entrepreneurship and the Team (MNR) MCC8037/NCC8037/CC8037

Required Courses (324 hours) – 6 courses

Certificate Course Requirements	Hours
ENP-850 Introduction to Entrepreneurship	54
ENP-851 Entrepreneurship Basics	54
ENP-853 Money, Finance and Accounting for Entrepreneurs	54
ENP-854 Business Model Canvas and Presentations for Entrepreneurs	54
ENP-870 Building an Entrepreneurial Team	54
ENP-871 Solopreneurship	54

### Social Media for Business (MNR) 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

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# Logistics

## Logistics Management (N)

Associate of Science Degree\*

NAS579/NAS579C/NCE579

Required Courses (18 units) – 7 courses

Degree 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

## Logistics Management (MN)

Associate of Science Degree\*

MAS580/MAS580C/MCE580

NAS580/NAS580C/NCE580

Required Courses (30 units) – 10-11 courses

Degree Course Requirements	Units
ACC-1A Principles of Accounting I	3
BUS-10 Introduction to Business	3
<b>OR</b> BUS-10H Honors Introduction to Business	3
BUS-18A Business Law I	3
BUS-20 Business Mathematics	3
BUS-22 Management Communications	3
<b>OR</b> BUS-24 Business Communications	3
Choose one from the following:	
CIS-1A Introduction to Computer Information Systems	3
CIS-3 Computer Applications for Business	3
CAT-3 Computer Applications for Business	3
<b>Concentration Requirements:</b>	<b>Units</b>
BUS-80 Principles of Logistics	3
<b>Select another 9 units from the following:</b>	<b>Units</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



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# Professional Development Studies-Noncredit

## 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
<b>Elective (Choose 2):</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

## Sales Techniques (MNR) MCC8016/NCC8016/CC8016

Required Courses (24 hours) – 2 courses

Certificate Course Requirements	Hours
PDS-814 Closing Techniques that Win the Sale	12
PDS-815 Winning Sales Scripts	12

## Successful Career Transitions (MNR) MCC8038/NCC8038/CC8038

Required Courses (21 hours) – 2 courses

Certificate Course Requirements	Hours
PDS-809 Business Writing in a Technological World <b>OR</b> PDS-812 Workplace Communication Strategies	12
PDS-818 The Successful Job Search	9

## 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



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• Computers  
• Technology

# Computer Applications and Office Technology

## Administrative Office Professional (R) CE637

Required Courses (13.5 units) – 5 courses

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

## Business Information Worker (M) MCE522

Required Courses (19 units) – 8 courses

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

## Business Information Worker (N)

Associate of Science Degree\*

NAS522/NAS522C/NCE522

Required Courses (19 units) – 8 courses

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

## Business Information Worker (R) CE522

Required Courses (19 units) – 8 courses

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



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## Executive Office Management (R)

Associate of Science Degree\*

AS639/AS639C/CE639

Required Courses (34 units) – 13 courses

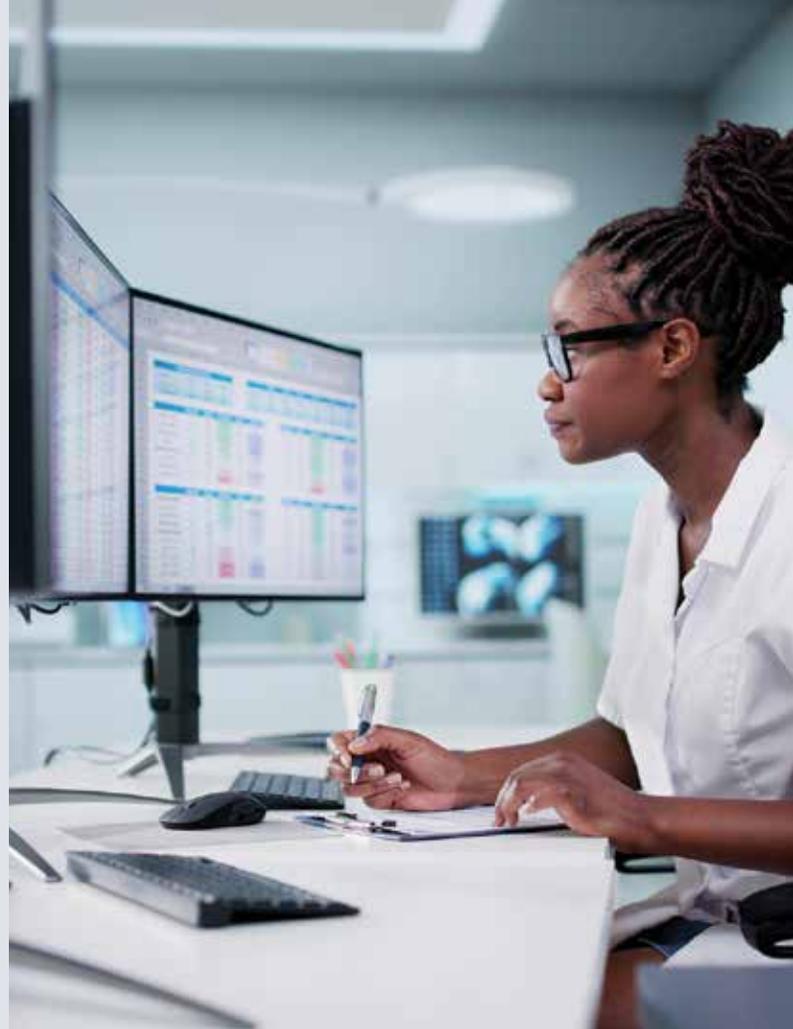
Degree Course Requirements	Units
ACC-55 Applied Accounting/Bookkeeping <b>OR</b> CAT-55 Applied Accounting/Bookkeeping	3
CAT-1A Business Etiquette	1
CAT-3 Computer Applications for Business <b>OR</b> CIS-3 Computer Applications for Business	3
CAT-30 Business English	3
CAT-31 Business Communications	3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



## Medical Secretary (R)

CE1029

Required Courses (13 units) – 5 courses

Certificate Course Requirements	Units
CAT-1A Business Etiquette	1
CAT-31 Business Communication Fundamentals	3
CAT-90 Microsoft Outlook <b>OR</b> CIS-90 Microsoft Outlook	3
CIS-1A Introduction to Computer Information Systems	3
NNA-79 Medical Terminology for Healthcare Professionals	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-93 Computers for Beginners <b>OR</b> CIS-93 Computers for Beginners	3

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# Computer Applications and Office Technology-Noncredit

## Business Information Worker Essential Preparation: Workplace Communication (M) MCC8029

Required Courses (21 hours) – 2 courses

Certificate Course Requirements	Hours
CAT-811 High Impact Presentations and Proposals for the Work Place <b>OR</b> PDS-811 High Impact Presentations and Proposals for the Work Place	12
CAT-814 Business Skills: Professional Communication Basics <b>OR</b> BUS-814 Business Skills: Professional Communication Basics	9

## Business Information Worker Essential Preparation: Workplace Communication (R) CC8029

Required Courses (21 hours) – 2 courses

Certificate Course Requirements	Hours
CAT-811 High Impact Presentations and Proposals for the Workplace	12
CAT-814 Business Skills: Professional Communication Basics	9

## Business Information Worker Essential Preparation: Workplace Decision Making and Time Management (M) MCC8030

Required Courses (33 hours) – 3 courses

Certificate Course Requirements	Hours
BUS-817 Business Skills: Professional Self-Management <b>OR</b> CAT-817 Business Skills: Professional Self-Management	9
CAT-808 Critical Thinking, Problem Solving and Decision Making <b>OR</b> PDS-808 Critical Thinking, Problem Solving and Decision Making	12
CAT-810 Time Management <b>OR</b> PDS-810 Time Management	12

## Business Information Worker Essential Preparation: Workplace Decision Making and Time Management (R) CC8030

Required Courses (33 hours) – 3 courses

Certificate Course Requirements	Hours
CAT-808 Critical Thinking, Problem Solving and Decision Making	12
CAT-810 Time Management	12
CAT-817 Business Skills: Professional Self-Management	9

## 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



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# 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
<b>Select another (3 units) from the following:</b>	
CIS-12 PHP Dynamic Web Site Programming	3
CIS-21A Linux Operating System Administration	3

## C++ Programming (N) NCE803

Required Courses (13 units) – 4 courses

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

## C++ Programming (R) CE741

Required Courses (13 units) – 4 courses

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

## Cisco Networking (R) CE1083

Required Courses (12 units) – 3 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

## Computer Applications (M)

Associate of Science Degree\*

MAS2004/MAS2004C/MCE2004

Required Courses (22-27.5 units) – 8 courses

Degree Course Requirements	Units
Choose one from the following:	
CAT-31 Business Communication Fundamentals	3
BUS-22 Management Communications	3
BUS-24 Business Communications	3
CIS-1A Introduction to Computer Information Systems	3
CIS-1B Advanced Concepts in Computer Information Systems	3
CIS-5 Programming Concepts and Methodology I: C++ <b>OR</b> CSC-5 Programming Concepts and Methodology I: C++	4
CIS-21 Introduction to Operating Systems	3
CIS-95A Introduction to the Internet - Living Online	1.5
<b>Group 1: Select one course from the following:</b>	
CAT-80 Word Processing: Microsoft Word for Windows	3
CAT-98B Advanced Excel	1.5
CIS-2 Fundamentals of Systems Analysis	3
CIS-25 Information and Communication Technology Essentials	4
CIS-61 Introduction to Database Theory	3
CIS-80 Word Processing: Microsoft Word for Windows	3
CIS-98B Advanced Excel	1.5
CSC-2 Fundamentals of Systems Analysis	3
CSC-61 Introduction to Database Theory	3



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<b>Group 2: Select two courses from the following (3-6 units):</b>	<b>Units</b>
CIS-12 PHP Dynamic Web Site Programming <b>OR</b> CSC-12 PHP Dynamic Web Site Programming	3
CIS-14A Web Programming: JavaScript <b>OR</b> CSC-14A Web Programming: JavaScript	3
CIS-14B Web Programming: Server Pages	3
CIS-54A Introduction to Animate	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-78A Introduction to Adobe Photoshop <b>OR</b> CAT-78A Introduction to Adobe Photoshop	3
CIS-79 Introduction to Adobe Illustrator <b>OR</b> CAT-79 Introduction to Adobe Illustrator	3
CIS-81 Introduction to Desktop Publishing using Adobe InDesign <b>OR</b> CAT-81 Introduction to Desktop Publishing using Adobe InDesign	3



## Computer Programming (M)

Associate of Science Degree\*

**MAS728/MAS728C/MCE728**

**Required Courses (26.5 units) – 9 courses**

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

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## Computer Programming (N)

Associate of Science Degree\*

NAS728/NAS728C/NCE728

Required Courses (26.5 units) – 9 courses

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

## Computer Programming (R)

Associate of Science Degree\*

AS728/AS728C/CE728

Required Courses (26.5 units) – 9 courses

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

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## Computer Science (R)

Associate in Science for Transfer (ADT)\*\*

CalGETC AS650

Required Courses (29 units) – 5 courses

Degree Course Requirements	Units
CIS-5 Programming Concepts and Methodology I:C++ <b>OR</b> CSC-5 Programming Concepts and Methodology I:C++	4
CIS-7 Discrete Structures <b>OR</b> CSC-7 Discrete Structures	3
CIS-11 Computer Architecture and Organization: Assembly <b>OR</b> CSC-11 Computer Architecture and Organization: Assembly	3
CIS-17A Programming Concepts and Methodology II: C++ <b>OR</b> CSC-17A Programming Concepts and Methodology II: C++	3
MAT-1A Calculus I <b>OR</b> MAT-1AH Honors Calculus I	4
MAT-1B Calculus II	3
PHY-4A Mechanics	3
PHY-4B Electricity and Magnetism	3

\*\*Associate in Science for Transfer Degree

The Associate in Science in Computer Science for Transfer degree will be awarded upon completion of 60 California State University (CSU) transferable units including the above major requirements and the California General Education Transfer Curriculum (Cal-GETC) requirements and with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of 'C' or better (or a 'P' if taken as Pass/No Pass).

## Cyber Defense (R)

Associate of Science Degree\*

AS969/AS969C

Required Courses (30-31 units) – 9 courses

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 Forensics Fundamentals	3
CIS-27B Introduction to Cybersecurity: Ethical Hacking	3
CIS-30A Introduction to Python Programming	3
<b>Electives (3-4 units)</b>	
CIS-5 Programming Concepts and Methodology I:C++	4
CIS-21B Linux Operating System Administration II	3
CIS-26F Cisco Networking Security	4
CIS-27C Palo Alto Networks Firewall Essentials	3
CIS-87A Introduction to IT Project Management	3



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## Data Analytics (MNR)

MCE1009/NCE1009/CE1009

Required Course: (33 units) - 10 courses

Certificate Course Requirements	Units
CIS-1A Introduction to Computer Information Systems	3
MAT-70B Statistics for STEM	4
MAT-1B Calculus II	4
CIS-30E Advanced Python Programming	3
MAT-70A Foundations of Data Science <b>OR</b> CIS-70A Foundations of Data Science	3
CIS-61 Introduction to Database Theory <b>OR</b> CSC-61 Introduction to Database Theory	3
CIS-30A Introduction to Python Programming <b>OR</b> CSC-8 Programming Concepts: Python	3
MAT-1A Calculus I <b>OR</b> MAT-1AH Honors Calculus I	4
CIS-63 Introduction to Structured Query Language (SQL) <b>OR</b> CSC-63 Introduction to Structured Query Language (SQL)	3
<b>Select one of the following (3 units)</b>	<b>Units</b>
CIS-2 Fundamentals of Systems Analysis 3.00	3
CIS-20 Systems Analysis and Design	3
CIS-68A Introduction to Machine Learning	3
CIS-68B Big Data Fundamentals	3
CSC-2 Fundamentals of Systems Analysis	3
CSC-20 Systems Analysis and Design	3

## Data Quick Start (R)

CE992

Required Courses (8 units) – 4 courses

Certificate Course Requirements	Units
CAT-98A Introduction to Excel	1.5
CAT-98B Advanced Excel	1.5
CIS-62 Microsoft Access	3
CIS-94 Data Analysis with Excel and Access	2

## Data Science (MNR)

Associate of Science Degree\*

MAS1011/MAS1011C

NAS1011/NAS1011C

AS1011/AS1011C

Required Courses: (40 units) – 12 courses

Degree Course Requirements	Units
CIS-1A Introduction to Computer Information Systems	3
CIS-30A Introduction to Python Programming <b>OR</b> CSC-8 Programming Concepts: Python	3
CIS-30E Advanced Python Programming	3
CIS-61 Introduction to Database Theory <b>OR</b> CSC-61 Introduction to Database Theory	3
CIS-63 Introduction to Structured Query Language (SQL) <b>OR</b> CSC-63 Introduction to Structured Query Language (SQL)	3
MAT-1A Calculus I <b>OR</b> MAT-1AH Honors Calculus I	4
MAT-1B Calculus II	4
MAT-1C Calculus III	4
MAT-3 Linear Algebra	3
MAT-70A Foundations of Data Science <b>OR</b> CIS-70A Foundations of Data Science	3
MAT-70B Statistics for STEM	4
<b>Electives (3 units)</b>	<b>Units</b>
CIS-2 Fundamentals of Systems Analysis	3
CIS-20 Systems Analysis and Design	3
CIS-68A Introduction to Machine Learning	3
CIS-68B Big Data Fundamentals	3
CSC-2 Fundamentals of Systems Analysis	3
CSC-20 Systems Analysis and Design	3



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## Information Assurance Auditing (M) MCE896

Required Courses (18 units) – 6 courses

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

## Information Security and Cyber Defense (R) CE740

Required Courses (24-25 units) – 7 courses

Certificate 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-30A Introduction to Python Programming	3
<b>Select another 3-4 units from the following:</b>	
CIS-5 Programming Concepts and Methodology I:C++	4
CIS-21 Introduction to Operating Systems	3
CIS-21B Linux Operating System Administration II	3
CIS-26F Cisco Networking Security	4
CIS-27C Palo Alto Networks Firewall Essentials	3
CIS-87A Introduction to IT Project Management	3
CSC-5 Programming Concepts and Methodology I:C++	4



## Information Technology (M) MCE958

Required Courses (25-26 units) – 7 courses

Certificate Course Requirements	Units
CIS-1A Introduction to Computer Information Systems	3
CIS-5 Programming Concepts and Methodology I:C++ <b>OR</b> 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
<b>Select 6-7 units (2 courses) from the following list:</b>	
BUS-24 Business Communications	3
CIS-2 Fundamentals of Systems Analysis <b>OR</b> CSC-2 Fundamentals of Systems Analysis	3
CIS-21 Introduction to Operating Systems	3
CIS-26B Cisco Networking Academy 1B <b>OR</b> CIS-40B Network Routing & Switching Essentials	4
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>Select 4 units (1 course) from the following list:</b>	
MAT-1A Calculus I <b>OR</b> MAT-1AH Honors Calculus I	4
MAT-5 Calculus for Business and Life Science	4
STAT-C1000H Introduction to Statistics - Honors <b>OR</b> STAT-C1000 Introduction to Statistics	4

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



## Information Technology (R)

CE958

Required Courses (25-26 units) – 7 courses

Certificate Course Requirements	Units
CIS-1A Introduction to Computer Information Systems	3
CIS-5 Programming Concepts and Methodology I:C++ <b>OR</b> CSC-5 Programming Concepts and Methodology I:C++	4
CIS-25 Information and Communication Technology Essentials	4
CIS-26A Cisco Networking Academy 1A	4
<b>Select 6-7 units (2 courses) from the following list:</b>	
BUS-24 Business Communications	3
CIS-2 Fundamentals of Systems Analysis <b>OR</b> CSC-2 Fundamentals of Systems Analysis	3
CIS-21 Introduction to Operating Systems <b>OR</b> CSC-21 Introduction to Operating Systems	3
CIS-26B Cisco Networking Academy 1B	4
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>Select 4 units (1 course) from the following list:</b>	
MAT-1A Calculus I	4
MAT-5 Calculus for Business and Life Science	4
STAT-C1000H Introduction to Statistics - Honors <b>OR</b> STAT-C1000 Introduction to Statistics	4

## Information Technology (IT) Cybersecurity (M)

Associate of Science Degree\*

MAS1012//MAS1012C

Required Courses (32 units) - 10 courses

Degree Course Requirements	Units
CIS-1A Introduction to Computer Information Systems	3
CIS-25 Information and Communication Technology Essentials	4
CIS-27 Information and Network Security	3
CIS-40A Computer Network Fundamentals	3
CIS-40B Routing and Switching Essentials	3
CIS-40D Systems and Network Administration	3
CIS-41A Principles of Cybersecurity Analysis	3
STAT-C1000 Introduction to Statistics <b>OR</b> STAT-C1000H Honors Introduction to Statistics	4
<b>Electives (6 units)</b>	
BUS-24 Business Communications	3
CIS-21 Introduction to Operating Systems	3
CIS-27A Computer Forensics Fundamentals	3
CIS-27B Introduction to Cybersecurity: Ethical Hacking	3
CIS-30A Introduction to Python Programming	3
CIS-30C Python Programming in Cybersecurity	3
CIS-40C Installing, Configuring & Administering Microsoft Operating Systems	3
CIS-61 Introduction to Database Theory	3

## IT Project Management (M)

MCE1010

Required Courses: (22 units) - 7 courses

Certificate Course Requirements	Units
BUS-77A Introduction to Project Management	4
BUS-77B Project Management CAPM and PMP Exam Prep	3
CIS-1A Introduction to Computer Information Systems	3
CIS-27 Information and Network Security	3
CIS-48A Introduction to Cloud Computing	3
CIS-87A Introduction IT Project Management	3
CIS-87B IT Project Management Framework	3

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## IT Technician Pathway: Cybersecurity Analyst (M)

MCE985

Required Courses: (18 units) – 6 courses

Certificate Course Requirements	Units
CIS-27 Information and Network Security	3
CIS-27B Introduction to Cybersecurity: Ethical Hacking	3
CIS-30A Introduction to Python Programming	3
CIS-40D Systems and Network Administration	3
CIS-41A Principles of Cybersecurity Analysis	3
CIS-41D Advanced Security Concepts and Practices	3

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

MCE986

Required Courses: (19 units) – 6 courses:

Certificate Course Requirements	Units
CIS-8 Fundamentals: Information Systems Security Auditing	3
CIS-25 Information and Communication Technology Essentials	4
CIS-27 Information and Network Security	3
CIS-40D Systems and Network Administration	3
CIS-41A Principles of Cybersecurity Analysis	3
CIS-41B Health Care Information Security & Privacy for Practitioner	3

## 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 (16 units) – 5 courses

Certificate Course Requirements	Units
BUS-10 Introduction to Business <b>OR</b> BUS-10H Honors 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	4

## Java Programming (N)

NCE809

Required Courses (13 units) – 4 courses

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



For Types of Careers,  
Salary Snapshots,  
and Industry Sector  
Pathways, Scan Here!

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## Java Programming (R)

CE742

Required Courses (13 units) – 4 courses

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

## Python Programming Certificate (MN)

MCE938/NCE938

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

## Webmaster-Web Designer Concentration (MR)

MCE933/CE933

Required Courses (17-18 units) – 7 courses

Certificate Course Requirements	Units
ADM-67 Multimedia Animation	3
Choose one from the following:	
ADM-71A Adobe Photoshop for Image Manipulation	3
CIS-56A Designing Web Graphics	3
CIS-78A /CAT-78A Introduction to Adobe Photoshop	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
Concentration Electives (5-6 units)	Units
Choose one from the following:	
ADM-2A Color Systems and File Management	2
ADM-62 Typography and Graphic Design	3
ADM-74A Web Design	3
Choose one from the following:	
ADM-77A Adobe Illustrator for Graphic Art	3
CAT-79 Introduction to Adobe Illustrator	3
CIS-79 Introduction to Adobe Illustrator	3

## Webmaster-Web Developer Concentration (M)

MCE934

Required Courses (18-19 units) – 7 courses

Certificate Course Requirements	Units
CIS-12 PHP Dynamic Web Site Programming <b>OR</b> CSC-12 PHP Dynamic Web Site Programming	3
CIS-14A Web Programming: JavaScript <b>OR</b> CSC-14A Web Programming: JavaScript	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
Concentration Electives (6-7 units)	Units
Choose one from the following:	
CIS-5 Programming Concepts and Methodology I:C++	4
CSC-5 Programming Concepts and Methodology I:C++	4
CIS-18A Java Programming: Objects	3
CSC-18A Java Programming: Objects	3
CIS-30A Introduction to Python Programming	3
Choose one from the following:	
ADM-71A Adobe Photoshop for Image Manipulation	3
CIS-56A Designing Web Graphics	3
CAT-78A Introduction to Adobe Photoshop	3
CIS-78A Introduction to Adobe Photoshop	3



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## Webmaster-Web Developer Concentration (R) CE934

Required Courses (18-19 units) – 7 courses

Certificate Course Requirements	Units
CIS-12 PHP Dynamic Web Site Programming <b>OR</b> CSC-12 PHP Dynamic Web Site Programming	3
CIS-14A Web Programming: JavaScript <b>OR</b> CSC-14A Web Programming: JavaScript	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
<b>Concentration Electives (6-7 units)</b>	
Choose one from the following:	
ADM-71A Adobe Photoshop for Image Manipulation	3
CIS-56A Designing Web Graphics	3
CIS-78A Introduction to Adobe Photoshop	3
Choose one from the following:	
CIS-5 Programming Concepts and Methodology I:C++	4
CSC-5 Programming Concepts and Methodology I:C++	4
CIS-18A Java Programming: Objects	3
CSC-18A Java Programming: Objects	3
CIS-30A Introduction to Python Programming	3

## Computer Information Systems- Noncredit

### Business Skills Boot Camp (R) CC8005

Required Courses (36 hours) – 4 courses

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

## 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

## Data Quick Start (R) CC8053

Required Courses (198 hours) – 4 courses

Certificate Course Requirements	Hours
CAT-898A Introduction to Excel	45
CAT-898B Advanced Excel	45
CIS-862 Microsoft Access	72
CIS-894 Data Analysis Using Excel and Access	36

## 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

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## 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 Basic Computer and IT Careers for ESL Students (MR)

MCC8034/CC8034

Required Courses (48 hours) – 2 courses

Certificate Course Requirements	Hours
ESL-810 Basic Computer and Technology Language Support	24
ESL-811 IT Workplace Language Support	24

## 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

## Remote Work Productivity Essentials (R)

CC8041

Required Courses (27 hours) – 3 courses

Certificate Course Requirements	Hours
CIS-801 Remote Work Technology	9
CIS-802 Remote Work Communication Tools and Apps	9
CIS-803 Remote Productivity and Time Management Tools	9

# Cyberpreneurship

## Cyberpreneurship (R)

Associate of Science Degree\*

AS1048//AS1048C/CE1048

Required Courses: (27 units) – 10 courses

Degree Course Requirements	Units
BUS-30 Entrepreneurship: Foundations and Fundamentals	3
BUS-56 Cyber Law	3
BUS-73 Exploring the Entrepreneurial Mindset	3
CIS-27 Information and Network Security	3
CIS-27A Computer Forensics Fundamentals	4
CIS-27B Introduction to Cybersecurity: Ethical Hacking	3
CIS-27F Cyber Threat Intelligence & Automated Response	3
CIS-27G Cyberpreneurship Capstone	3
CIS-87A Introduction to IT Project Management	3
<b>Electives (3-4 units)</b>	
ACC-65 QuickBooks Accounting	3
BUS-10 Introduction to Business <b>OR</b> BUS-10H Honors Introduction to Business	3
BUS-24 Business Communications	3
CIS-21A Linux Operating System Administration	3
CIS-21B Linux Operating System Administration II	3
CIS-25 Information and Communication Technology Essentials	4



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• Cosmetology

# Cosmetology

## Barbering Concepts

Associate of Science Degree\*

AS959/AS959C/CE959

Required Courses (41 units) – 8 courses

Degree Course Requirements	Units
COS-60A1 Cosmetology Concepts Level A1	5.5
COS-60A2 Cosmetology Concepts Level A2	5.5
COS-60B1 Cosmetology Concepts Level B1	5
COS-60B3 Level II Haircutting Barbering Concepts	7
COS-60C1 Cosmetology Concepts Level C1	5
COS-60C2 Cosmetology Concepts Level C2	5
COS-60D1 Cosmetology Concepts Level D1	4
COS-60D2 Cosmetology Concepts Level D2	4

## Cosmetology Business Administration-Entrepreneurial Concentration (R)

Associate of Science Degree\*

AS537/AS537C/CE537

Required Courses (21 units) – 7 courses

Please note that separate application and additional requirements may be needed

Degree Course Requirements	Units
BUS-10 Introduction to Business <b>OR</b> BUS-10H Introduction to Business Honors	3
BUS-20 Business Mathematics	3
BUS-30 Entrepreneurship and Small Business Management	3
<b>Select another 12 units from the following:</b>	
ACC-55 Applied Accounting/Bookkeeping <b>OR</b> CAT-55 Applied Accounting/Bookkeeping	3
ACC-62 Payroll Accounting	3
ACC-65 QuickBooks Accounting	3
ART-39 Design and Graphics	3
CAT-3 Computer Applications for Business <b>OR</b> 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

NOTE: The Cosmetology Business Administration Certificate will be awarded to graduates of the Cosmetology Program, or Cosmetology License holders upon successful completion of all Cosmetology Business Administration Major Core Requirements and 12 units selected from the Major Concentration Requirements (total of 21 units) in order to receive the certificate in the concentration area of their choice.

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

Associate of Science Degree\*

AS535/AS535C/CE535

Required Courses (21 units) – 7 courses

Please note that separate application and additional requirements may be needed

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

NOTE: The Cosmetology Business Administration Certificate will be awarded to graduates of the Cosmetology Program, or Cosmetology License holders upon successful completion of all Cosmetology Business Administration Major Core Requirements and 12 units selected from the Major Concentration Requirements (total of 21 units) in order to receive the certificate in the concentration area of their choice.



For Types of Careers,  
Salary Snapshots,  
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## Cosmetology Concepts (R)

Associate of Science Degree\*

AS960/AS960C/CE960

Required Courses (39 units) – 8 courses

Degree Course Requirements	Units
COS-60A1 Cosmetology Concepts Level A1	5.5
COS-60A2 Cosmetology Concepts Level A2	5.5
COS-60B1 Cosmetology Concepts Level B1	5
COS-60B2 Cosmetology Concepts Level B2	5
COS-60C1 Cosmetology Concepts Level C1	5
COS-60C2 Cosmetology Concepts Level C2	5
COS-60D1 Cosmetology Concepts Level D1	4
COS-60D2 Cosmetology Concepts Level D2	4

## Cosmetology Instructor Training (R)

CE1084

Required Courses (14 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 A	7
COS-61B Level II Cosmetology Instructor Concepts B	7

## 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

Associate of Science Degree

AS1094/AS1094C/CE1094

Required Courses (20 units) – 4 courses

Degree Course Requirements	Units
COS-62A1 Esthetician Concepts Level A1	5
COS-62A2 Esthetician Concepts Level A2	5
COS-62B1 Esthetician Concepts Level B1	5
COS-62B2 Esthetician Concepts Level B2	5

## Hairstyling Concepts (R)

CE1092

Required Courses (19 units) – 4 courses

Certificate Course Requirements	Units
COS-60A1 Cosmetology Concepts Level A1	5.5
COS-60A2 Cosmetology Concepts Level A2	5.5
COS-60D1 Cosmetology Concepts Level D1	4
COS-60D2 Cosmetology Concepts Level D2	4

## Manicuring Concepts (R)

CE1093

Required Courses (14 units) – 2 courses

Certificate Course Requirements	Units
COS-64A Manicuring and Pedicuring	7
COS-64B Level II: Manicuring and Pedicuring	7

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• Education



## Community Interpretation

### Community Interpretation (M)

Associate of Science Degree\*

MAS557/ MAS557C/MCE557

Required Courses (18 units) – 4 courses

Degree 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	3

## Early Childhood Education

### Child and Adolescent Development (M)

Associate in Arts for Transfer (ADT)\*\*

CalGETC MAA886

Required Courses (19-21 units) – 17 courses

Degree Course Requirements	Units
EAR-20 Child Growth and Development	3
PSYC-C1000 Introduction to Psychology <b>OR</b> PSYC-C1000H Introduction to Psychology - Honors	3
Choose one from the following:	
STAT-C1000 Introduction to Statistics	4
STAT-C1000H Introduction to Statistics - Honors	4
PSYC-48 Statistics for the Behavioral Sciences	4
SOC-48 Statistics for the Behavioral Sciences	4
<b>LIST A Select one course from below</b>	<b>Units</b>
ANT-2 Cultural Anthropology <b>OR</b> ANT-2H Honors Cultural Anthropology	3
EAR-42 Child, Family, and Community	3
SOC-1 Introduction to Sociology	3
SOC-10 Race and Ethnic Relations <b>OR</b> SOC-10H Honors Race and Ethnic Relations	3
SOC-12 Marriage and Family Relations	3
<b>LIST B Select two courses from below</b>	<b>Units</b>
BIO-1 General Biology <b>OR</b> BIO-1H Honors General Biology	4
EAR-24 Introduction to Curriculum	3
EAR-25 Teaching in a Diverse Society	3
EAR-28 Principles and Practices of Teaching Young Children	3
EAR-30 Practicum in Early Childhood Education	4
HES-1 Health Science	3
POLS-C1000 American Government and Politics <b>OR</b> POLS-C1000H American Government and Politics - Honors	3
PSYC-9 Developmental Psychology	3

\*\*Associate in Art for Transfer Degree

The Associate in Art 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 California General Education Transfer Curriculum (Cal-GETC) requirements and with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of 'C' or better (or a 'P' if taken as Pass/No Pass).

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

## Child and Adolescent Development (N)

Associate in Arts for Transfer (ADT)\*\*

CalGETC NAA886

Required Courses (19-20 units) – 17 courses

Degree Course Requirements	Units
EAR-20 Child Growth and Development	3
PSYC-C1000 Introduction to Psychology <b>OR</b> PSYC-C1000H Introduction to Psychology - Honors	3
Choose one from the following:	
STAT-C1000 Introduction to Statistics	4
STAT-C1000H Introduction to Statistics - Honors	4
PSYC-48 Statistics for the Behavioral Sciences	4
SOC-48 Statistics for the Behavioral Sciences	4
<b>LIST A Select one course from below</b>	<b>Units</b>
ANT-2 Cultural Anthropology <b>OR</b> ANT-2H Honors Cultural Anthropology	3
EAR-42 Child, Family, and Community	3
SOC-1 Introduction to Sociology <b>OR</b> SOC-1H Honors Introduction to Sociology	3
SOC-10 Race and Ethnic Relations <b>OR</b> SOC-10H Honors Race and Ethnic Relations	3
SOC-12 Marriage and Family Relations	3
<b>LIST B Select two courses from below</b>	<b>Units</b>
BIO-1 General Biology <b>OR</b> BIO-1H Honors General Biology	4
BIO-10 Life Science Principles	4
EAR-24 Introduction to Curriculum	3
EAR-28 Principles and Practices of Teaching Young Children	3
PSYC-9 Developmental Psychology	3

\*\*Associate in Art 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 California General Education Transfer Curriculum (Cal-GETC) requirements and with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of 'C' or better (or a 'P' if taken as Pass/No Pass).

## Child and Adolescent Development (R)

Associate in Arts for Transfer (ADT)\*\*

CalGETC AA886

Required Courses (19-21 units) – See College catalog for degree requirements.

Degree Course Requirements	Units
EAR-20 Child Growth and Development	3
PSYC-C1000 Introduction to Psychology <b>OR</b> PSYC-C1000H Introduction to Psychology - Honors	3
Choose one from the following:	
STAT-C1000 Introduction to Statistics	4
STAT-C1000H Introduction to Statistics - Honors	4
PSYC-48 Statistics for the Behavioral Sciences	4
SOC-48 Statistics for the Behavioral Sciences	4
<b>LIST A Select 3 courses from below</b>	<b>Units</b>
EAR-42 Child, Family, and Community	3
PSYC-9 Developmental Psychology	3
SOC-12 Marriage and Family Relations	3
ANT-2 Cultural Anthropology <b>OR</b> ANT-2H Honors Cultural Anthropology	3
BIO-1 General Biology <b>OR</b> BIO-1H Honors General Biology	4
SOC-1 Introduction to Sociology <b>OR</b> SOC-1H Honors Introduction to Sociology	3
SOC-10 Race and Ethnic Relations <b>OR</b> SOC-10H Honors Race and Ethnic Relations	3
<b>LIST B Select a maximum of two courses from below</b>	<b>Units</b>
EAR-19 Observation and Assessment in Early Childhood Education	3
EAR-24 Introduction to Curriculum	3
EAR-25 Teaching in a Diverse Society	3
EAR-28 Principles and Practices of Teaching Young Children	3
EAR-30 Practicum in Early Childhood Education	4
EAR-33 Infant and Toddler Development	3
EAR-34 Infant and Toddler Care and Education	3
HES-1 Health Science <b>OR</b> BIO-35 Health Science	3

\*\* Associate in Science for Transfer Degree

The Associate in Art 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 California General Education Transfer Curriculum (Cal-GETC) requirements and with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of 'C' or better (or a 'P' if taken as Pass/No Pass).Pass).

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## Early Childhood Education (MNR)

Associate in Arts for Transfer (ADT)\*\*

CalGETC MAS530

CalGETC NAS530

CalGETC AS530

**Required Courses (25 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 California General Education Transfer Curriculum (Cal-GETC) requirements and with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of 'C' or better (or a 'P' if taken as Pass/No Pass).

## 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 School Age (M)

MCE1060

**Required Courses (30 units) - 10 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-42 Child, Family, and Community	3
EAR-57 School Age Child Care Programs and Curriculum	3
EAR-58 Recreational Leadership in School Age Child Care	3
EAR-59 Practicum in School-Age	3

## Early Childhood Education - Associate Teacher (R)

CE1085

**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 - Twelve Core Units (MN)

MCE797/NCE797

**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



**For Types of Careers,  
Salary Snapshots,  
and Industry Sector  
Pathways, Scan Here!**

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## Early Childhood Education (MNR)

Associate of Science Degree\*

MAS544/ MAS544C/MCE544

NAS544/NAS544C/NCE544

AS544/AS544C/CE544

### Required Courses (31 units) – 10-11 courses

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
<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
ENGL-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 (M)

Associate of Science Degree\*

MAS601/MAS601C/MCE601

### Required Courses (34 units) – 11 courses

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-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
<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-44 Administration I: Programs in Early Childhood Education	3
EAR-47 Childhood Stress and Trauma	3



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## Early Childhood Intervention Assistant (NR)

Associate of Science Degree\*

**NAS601/NNAS601C/NCE601**

**AS601/AS601C/CE601**

**Required Courses (34 units) – 11 courses**

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-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
<b>Electives (6 units)</b>	
	<b>Units</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

## Early Childhood Education-Noncredit

### Family Childcare Provider (MR)

**MCC8033/ NCC8033/CC8033**

**Required Courses (24 hours) – 3 courses**

Certificate Course Requirements	Hours
EAR-810 Family Child Care - Our Business	8
EAR-811 Family Child Care - Our Curriculum	8
EAR-812 Family Child Care - Our Family and Community	8

## Education Paraprofessional

### Education Paraprofessional (M)

Associate of Science Degree\*

**MAS603/MAS603C/MCE603**

**Required Courses (22 units) – 7 courses**

Degree Course Requirements	Units
BIO-1 General Biology	4
<b>OR</b>	
BIO-1H General Biology	4
COMM-C1000 Introduction to Public Speaking	3
<b>OR</b>	
COMM-C1000H Introduction to Public Speaking Honors	3
EAR-20 Child Growth and Development	3
EDU-1 Introduction to Elementary Classroom Teaching	4
EDU-200 Education Work Experience	1
ENGL-C1000 Academic Reading and Writing	4
<b>OR</b>	
ENGL-C1000H Academic Reading and Writing Honors	4
HES-1 Health Science	3

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

## Education Paraprofessional (R)

Associate of Science Degree\*

AS2001/AS2001C/CE2001

Required Courses (25 units) – 7-8 courses

Degree Course Requirements	Units
EAR-20 Child Growth and Development	4
EDU-1 Introduction to Elementary Classroom Teaching	4
ENGL-C1000 Academic Reading and Writing	4
<b>OR</b> ENGL-C1000H Academic Reading and Writing - Honors	4
Choose one from the following:	
COMM-C1000 Introduction to Public Speaking	3
COMM-C1000H Introduction to Public Speaking - Honors	3
COMM-9 Interpersonal Communication	3
COMM-9H Honors Interpersonal Communication	3
Choose one from the following:	
HIS-6 United States History to 1877	3
HIS-6H Honors United States History to 1877	3
HIS-7 United States History from 1865	3
HIS-7H Honors United States History from 1865	3
<b>Electives (8 units)</b>	<b>Units</b>
EAR-26 Health, Safety and Nutrition	3
ENGL-30 Children's Literature	3
KIN-30 First Aid and CPR	3
SPA-1 Spanish 1	5
<b>OR</b> SPA-2 Spanish 2	5

## English as a Second Language- Noncredit

### Beginning American College English (N) NCC8028

Required Courses (180 hours) – 2 courses

Certificate Course Requirements	Hours
EAR-846 Beginning American College English	90
EAR-847 Low Intermediate American College English	90

### Advanced American College English (N) NCC8027

Required Courses (324 hours) – 3 courses

Certificate Course Requirements	Hours
EAR-848 Intermediate American College English	108
EAR-849 High Intermediate American College English	108
EAR-850 Advanced American College English	108

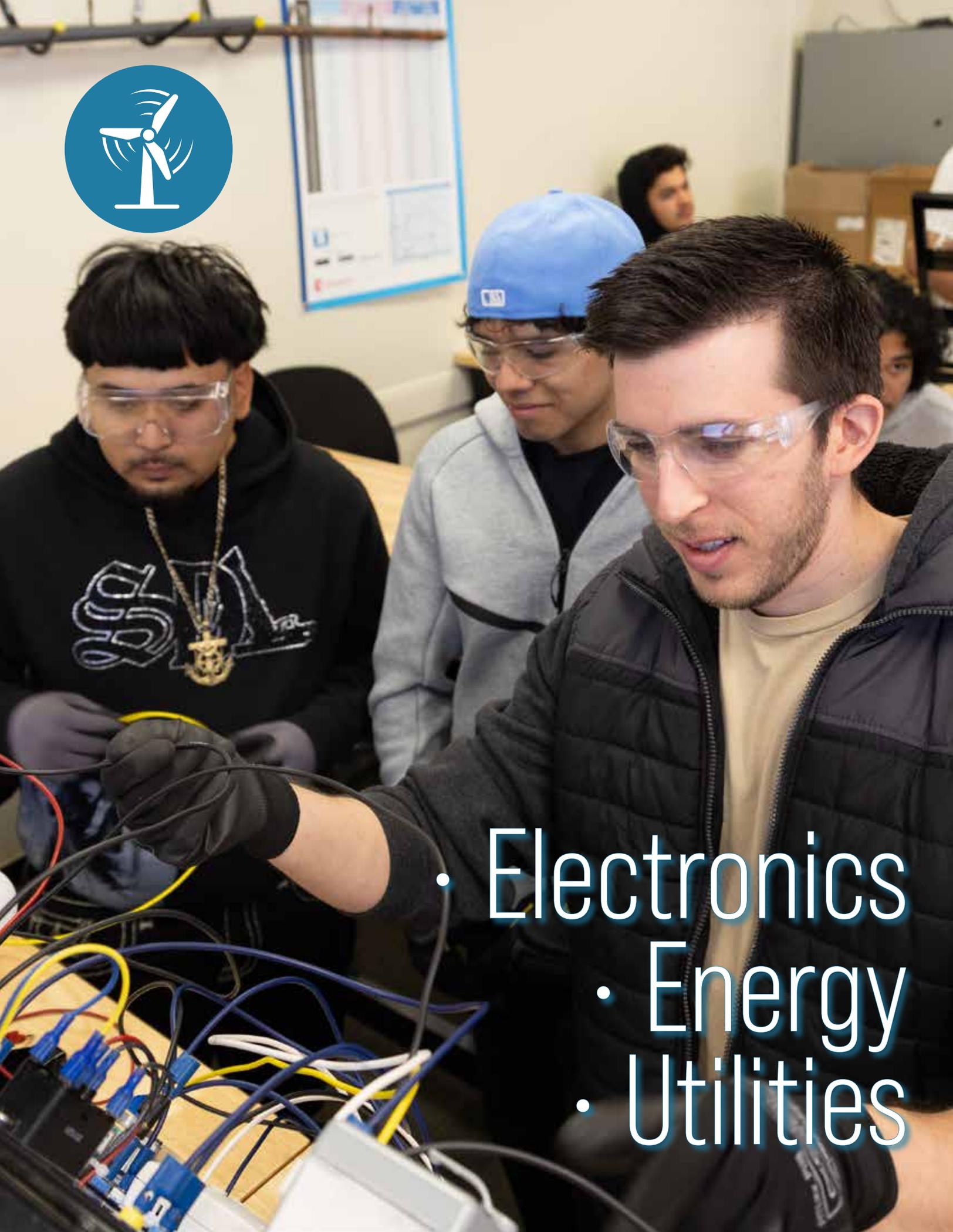
### Introduction to Education Profession for ESL Students (M) MCC8007

Required Courses (48 hours) - 2 courses

Certificate Course Requirements	Hours
ESL-804 Introduction to American Public Education	24
ESL-805 Introduction to Education Practices and Related Service Providers in Special Education	24



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- Electronics
- Energy
- Utilities

# Air Conditioning and Refrigeration

## Building Automation Control (R) CE944

Courses (21 units) – 7 courses

Certificate Course Requirements	Units
AIR-61A Beginning Air Conditioning and Refrigeration I	3
AIR-61B Advanced Air Conditioning and Refrigeration II	3
AIR-64A Beginning Air Conditioning and Refrigeration Electricity	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

## HVAC Commercial Technology (R)

Associate of Science Degree\*

AS946/AS946C/CE946

Required Courses (36 units) – 12 courses

Degree 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)

Associate of Science Degree\*

AS947/AS947C/CE947

Required Courses (27 units) – 9 courses

Degree 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 HVAC/R 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



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# Electronics

## Digital Electronics (N)

Associate of Science Degree\*

NAS656/NAS656C/NCE656

Required Courses (28 units) – 8-9 course

Degree Course Requirements	Units
Choose one from the following:	
DFT-27 Technical Communications	3
ENE-27 Technical Communications	3
ELE-27 Technical Communications	3
ELC-11 DC Electronics <b>OR</b> ELE-11 DC Electronics	4
ELC-13 AC Electronics <b>OR</b> ELE-13 AC Electronics	4
ELE-25 Digital Techniques	4
ELE-26 Microcontrollers	3
ELE-28 MultiSim CAD PCB Design/Fab	3
<b>Electives (7 units)</b>	<b>Units</b>
ELC-91 Fundamentals of Solar Energy <b>OR</b> ELE-91 Fundamentals of Solar Energy	3
ELE-10 Survey of Electronics	4
ELE-23 Electronic Devices and Circuits	4
ELE-55 Occupational Safety and Health Administration (OSHA) Standards for General Industry <b>OR</b> MAN-55 Occupational Safety and Health Administration (OSHA) Standards for General Industry	1
ELE-61 Robotics for Manufacturing <b>OR</b> MAN-61 Robotics for Manufacturing	3
ELE-63 LabVIEW Visual Programming for Automated Systems <b>OR</b> MAN-63 LabVIEW Visual Programming for Automated Systems	3
ELE-64 Programmable Logic Controllers <b>OR</b> MAN-64 Programmable Logic Controllers	3
ELE-200 Electronics, Work Experience	1-4

# Electrician

## Electrician (N)

Associate of Science Degree\*

NAS766/NAS766C/NCE766

Required Courses (31-32 units) – 9 courses

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



For Types of Careers,  
Salary Snapshots,  
and Industry Sector  
Pathways, Scan Here!

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## Electrician Apprenticeship (N)

Associate of Science Degree\*

NAS485/NAS485C/NCE485

### Required Courses (35 units) – 10 courses

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

Degree 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 (11-12 units) – 4 courses

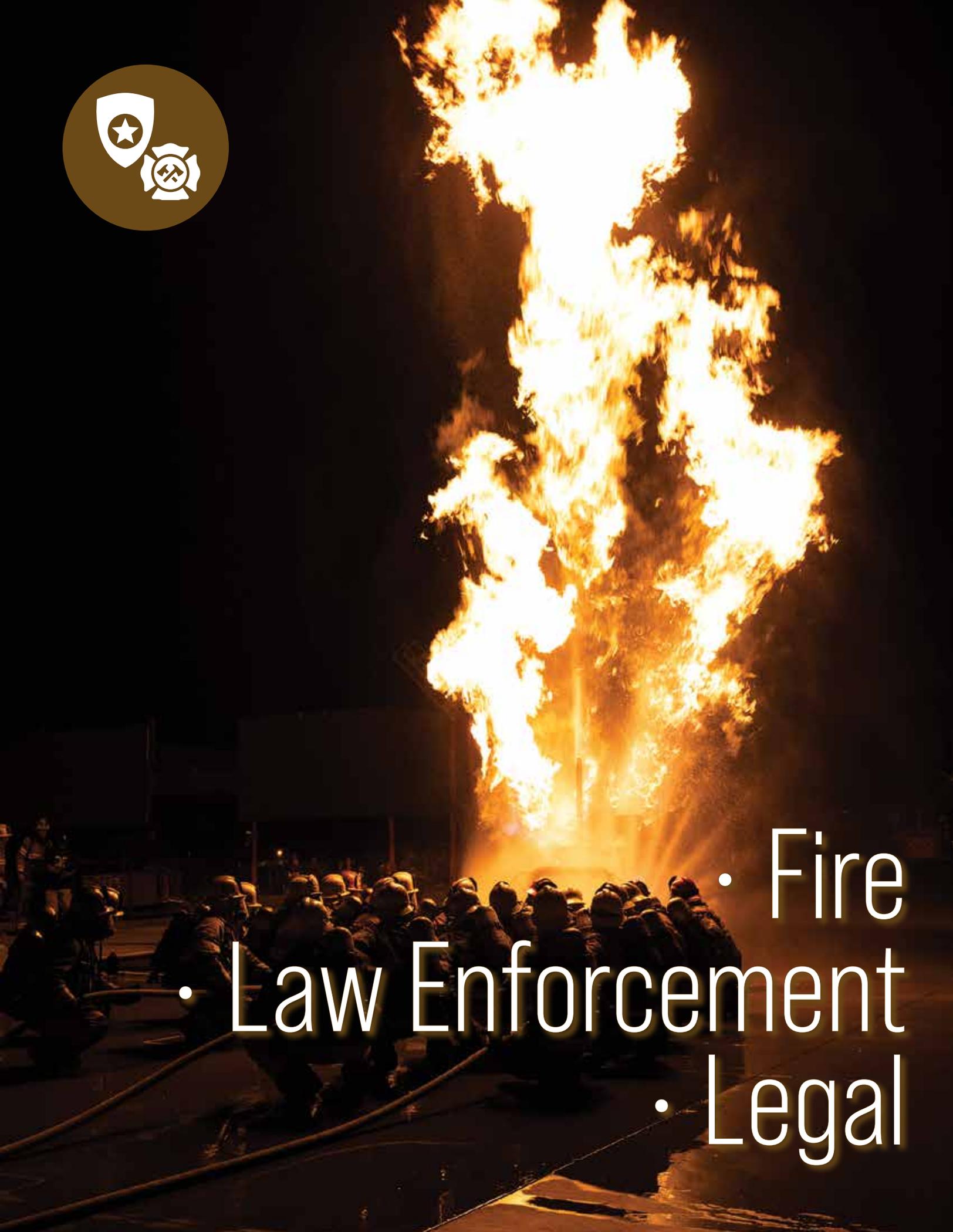
Certificate Course Requirements	Units
Choose one from the following:	
ELC-77 Electrical Theory for Electricians	3
ELE-77 Electrical Theory for Electricians	3
MAN-77 Electrical Theory for Electricians	3
ELE-11 DC Electronics	3
ELE-13 AC Electronics	4
ELE-91 Fundamentals of Solar Energy	3
ELE-55 Occupational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



For Types of Careers, Salary Snapshots, and Industry Sector Pathways, Scan Here!



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• Law Enforcement

• Fire

• Legal

# Administration of Justice

## Administration of Justice (M)

Associate in Science for Transfer (ADT)\*\*

CalGETC MAS643

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

Degree Course Requirements	Units
ADJ-1 Introduction to the Administration of Justice <b>OR</b> ADJ-1H Honors Introduction to Administration of Justice	3
ADJ-3 Concepts of Criminal Law <b>OR</b> ADJ-3H Honors Concepts of Criminal Law	3
<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 (6-7 units)</b>	
Any List A course not already used	3-4
ADJ-9 Law In American Society <b>OR</b> ADJ-9H Honors Law in American Society	3
Choose one from the following:	
STAT-C1000 Introduction to Statistics	4
STAT-C1000H Introduction to Statistics - Honors	4
PSYC-48 Statistics for the Behavioral Sciences	4
SOC-48 Statistics for the Behavioral Sciences	4
PSYC-C1000 Introduction to Psychology <b>OR</b> PSYC-C1000H Introduction to Psychology - Honors	3
SOC-1 Introduction to Sociology	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 California General Education Transfer Curriculum (Cal-GETC) requirements and with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of 'C' or better (or a 'P' if taken as Pass/No Pass).

## Administration of Justice (N)

Associate in Science for Transfer (ADT)\*\*

CalGETC NAS643

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

Degree Course Requirements	Units
ADJ-1 Introduction to the Administration of Justice <b>OR</b> ADJ-1H Honors Introduction to the Administration of Justice	3
ADJ-3 Concepts of Criminal Law <b>OR</b> ADJ-3H Honors Concepts of Criminal Law	3
<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 <b>OR</b> ADJ-9H Honors Law in American Society	3
ADJ-14 Advanced Criminal Investigation	3
ADJ-19 Introduction to Policing	3
ADJ-24 Interviewing & Interrogation	3
ADJ-31 Cybercrime & Digital Forensics	3
ADJ-200 Work Experience	3
Choose one from the following:	
STAT-C1000 Introduction to Statistics	4
STAT-C1000H Introduction to Statistics - Honors	4
PSYC-48 Statistics for the Behavioral Sciences	4
SOC-48 Statistics for the Behavioral Sciences	4
POLS-C1000 American Government and Politics <b>OR</b> POLS-C1000H American Government and Politics - Honors	3
PSYC-C1000 Introduction to Psychology <b>OR</b> PSYC-C1000H Introduction to Psychology - Honors	3

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SOC-1 Introduction to Sociology <b>OR</b> SOC-1H Honors Introduction to Sociology	3
SOC-20 Introduction to Criminology	3
SOC-50 Introduction to Social Research Methods	3

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## Administration of Justice (R)

Associate in Science for Transfer (ADT)\*\*

CalGETC AS643

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

Degree Course Requirements	Units
ADJ-1 Introduction to the Administration of Justice <b>OR</b> ADJ-1H Honors Introduction to the Administration of Justice	3
ADJ-3 Concepts of Criminal Law <b>OR</b> ADJ-3H Honors Concepts of Criminal Law	3
<b>Electives List A (6 units)</b>	<b>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-12 Introduction to Criminalistics	3
ADJ-13 Criminal Investigation	3
ADJ-20 Introduction to Corrections	3
<b>Electives List B (6-7 units)</b>	<b>Units</b>
Any course not taken from List A	3
ADJ-9 Law In American Society <b>OR</b> ADJ-9H Honors Law in American Society	3
ADJ-19 Introduction to Policing	3
ADJ-24 Interviewing & Interrogation	3
ADJ-27 Forensic & Crime Scene Photography <b>OR</b> PHO-27 Forensic & Crime Scene Photography	3
ADJ-28 Crime Scene Investigation	3
ADJ-31 Cybercrime & Digital Forensics	3
PSYC-C1000 Introduction to Psychology <b>OR</b> PSYC-C1000H Introduction to Psychology - Honors	3

SOC-1 Introduction to Sociology <b>OR</b> SOC-1H Honors Introduction to Sociology	3
SOC-20 Introduction To Criminology	3
Choose one from the following:	
STAT-C1000 Introduction to Statistics	4
STAT-C1000H Introduction to Statistics - Honors	4
PSYC-48 Statistics for the Behavioral Sciences	4
SOC-48 Statistics for the Behavioral Sciences	4

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## Administration of Justice (M)

Associate of Science Degree\*

MAS504/MAS504C/MCE504

**Required Courses (18 units) – 6 courses**

Degree Course Requirements	Units
ADJ-1 Introduction to the Administration of Justice <b>OR</b> ADJ-1H Honors Introduction to Administration of Justice	3
ADJ-3 Concepts of Criminal Law <b>OR</b> ADJ-3H Honors Concepts of Criminal Law	3
ADJ-4 Legal Aspects of Evidence	3
ADJ-5 Community Relations	3
ADJ-8 Juvenile Procedures	3
ADJ-20 Introduction to Corrections	3

## Administration of Justice (N)

Associate of Science Degree\*

NAS504/NAS504C/NCE504

**Required Courses (27 units) – 6 courses**

Degree 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
ADJ-9 Law in American Society	3
<b>Select another 9 units from the following:</b>	<b>Units</b>
Choose one from the following:	
Choose from any elective courses in the discipline	3
POLS-5 The Law and Politics	3
SOC-20 Introduction to Criminology	3

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## Administration of Justice (R)

Associate of Science Degree\*

AS504/AS504C/CE504

Required Courses (27 units) – 9 courses

Degree 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
<b>Select another 12 units from the following:</b>	
ADJ-31 Cybercrime & Digital Forensics	3
ADJ-200 Administration of Justice Work Experience	1-4
ADJ-8 Juvenile Law and Procedures	3
ADJ-9 Law In American Society	3
ADJ-9H Honors Law in American Society	3
ADJ-10 Introduction to Security	3
ADJ-12 Introduction to Criminalistics	3
ADJ-13 Criminal Investigation	3
ADJ-14 Advanced Criminal Investigation	3
ADJ-15 Narcotics	3
ADJ-19 Introduction to Policing	3
ADJ-20 Introduction to Corrections	3
ADJ-21 Control & Supervision in Corrections	3
ADJ-22 Legal Aspects of Corrections	3
ADJ-24 Interviewing & Interrogation	3
ADJ-25 Introduction to Probation and Parole	3

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

Please note that separate application and additional requirements may be needed

Required Courses (15 units) – 1 course

Certificate Course Requirements	Units
ADJ-C1D± Basic Correctional Deputy Academy»	15

±This program meets or exceeds the mandates of the California Board of Corrections and Rehabilitation. This program fulfills the state mandated Corrections Standards Authority training requirements to work in city or county correctional facilities intended to incarcerate adult offenders.

»This course meets or exceeds the mandates of the California Board of Corrections and Rehabilitation.

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

Please note that separate application and additional requirements may be needed

Required Courses (8 units) – 1 course

Certificate Course Requirements	Units
ADJ-D1A Basic Public Safety Dispatch≈	8

≈This course is a basic overview of public safety dispatching and satisfies the July 1, 2011, revised curriculum set by the Peace Officer Standards and Training (P.O.S.T.) for basic public safety dispatching.

## Administration of Justice/Corrections (M)

Associate of Science Degree\*

MAS932/MAS932C

Required Courses (18 units) – 2 courses

Degree Course Requirements	Units
ADJ-C1D± Basic Correctional Deputy Academy»	15
<b>Electives (3 units) Choose one:</b>	
ADJ-13 Criminal Investigation	3
ADJ-22 Legal Aspects of Corrections	3
ADJ-24 Interviewing and Interrogation	3

±This program meets or exceeds the mandates of the California Board of Corrections and Rehabilitation. This program fulfills the state mandated Corrections Standards Authority training requirements to work in city or county correctional facilities intended to incarcerate adult offenders.

»This course meets or exceeds the mandates of the California Board of Corrections and Rehabilitation.



For Types of Careers,  
Salary Snapshots,  
and Industry Sector  
Pathways, Scan Here!

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## Administration of Justice/Corrections (N)

Associate of Science Degree\*

NAS1097/NAS1097C

Required Courses (30 units) – 10 courses

Degree Course Requirements	Units
ADJ-1 Introduction to the Administration of Justice <b>OR</b> ADJ-1H Honors Introduction to the Administration of Justice	3
ADJ-8 Juvenile Law and Procedures	3
ADJ-20 Introduction to Corrections	3
ADJ-21 Control & Supervision in Corrections	3
ADJ-22 Legal Aspects of Corrections	3
ADJ-24 Interviewing & Interrogation	3
ADJ-25 Introduction to Probation and Parole	3
Electives List (9 units)	Units
Choose from any elective courses in the discipline.	3
POLS-5 Introduction to Law	3
SOC-20 Introduction To Criminology	3

\*\*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 California General Education Transfer Curriculum (Cal-GETC) requirements and with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of 'C' or better (or a 'P' if taken as Pass/No Pass).

## Administration of Justice/Corrections (N)

NCE1098

Required Courses (15 units) –

Certificate Course Requirements	Units
ADJ-8 Juvenile Law and Procedures	3
ADJ-20 Introduction to Corrections	3
ADJ-21 Control & Supervision in Corrections	3
ADJ-22 Legal Aspects of Corrections	3
ADJ-25 Introduction to Probation and Parole	3

## Administration of Justice/Law Enforcement Basic Peace Officer Academy Intensive (M)

Associate of Science Degree\*

MAS931/MAS931C/MCE931

Please note that separate application and additional requirements may be needed

Required Courses (40.5 units) – 1 course

Degree Course Requirements	Units
ADJ-B1B Basic Peace Officer Training Academy	40.5

## Administration of Justice/Law Enforcement Basic Peace Officer Modular Academy (M)

Associate of Science Degree\*

MAS922/MAS922C/MCE922

Required Courses (35.5 units) – 3 courses

Degree Course Requirements	Units
ADJ-R1A2 Level III Modular Academy Training	7.5
ADJ-R1B Level II Modular Academy Training	10.5
ADJ-R1C Regular Basic Course, Modular Format, Module I Training	17.5

## Corrections (R)

CE943

Required Courses (19 units) – 5 courses

Certificate Course Requirements	Units
ADJ-8 Juvenile Law and Procedures	3
ADJ-20 Introduction to Corrections	3
ADJ-21 Control & Supervision in Corrections	3
ADJ-22 Legal Aspects of Corrections	3
ADJ-25 Introduction to Probation and Parole	3
ENGL-C1000 Academic Reading and Writing	4



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## Crime and Intelligence Analysis (M)

Associate of Science Degree\*

MAS1013/MAS1013C/MCE1013

Required Courses: (29.5-32 units) – 10 courses

Degree Course Requirements	Units
ADJ-1 Introduction to the Administration of Justice <b>OR</b> ADJ-1H Honors Introduction to the Administration of Justice	3
ADJ-3H Honors Concepts of Criminal Law <b>OR</b> ADJ-3 Concepts of Criminal Law	3
ADJ-40 Law Enforcement Crime Analysis	3
ADJ-41 Technology & Investigative Analysis	3
ADJ-42 Criminal Behavior and Intelligence Analysis	3
ADJ-43 Criminal Intelligence Analyst Simulations	3
GEG-8 Introduction to Geographic Information Systems, with Lab	3
Choose one from the following:	
STAT-C1000 Introduction to Statistics	4
STAT-C1000H Introduction to Statistics - Honors	4
PSYC-48 Statistics for the Behavioral Sciences	4
SOC-48 Statistics for the Behavioral Sciences	4
SOC-50 Introduction to Social Research Methods <b>OR</b> PSYC-50 Research Methods in Psychology	3
	4
<b>Electives (1.5-3 units)</b>	<b>Units</b>
CIS-61 Introduction to Database Theory <b>OR</b> CSC-61 Introduction to Database Theory	3
CIS-65 Introduction to Microsoft PowerPoint <b>OR</b> CAT-65 Introduction to Microsoft PowerPoint	1.5
CIS-98A Introduction to Excel <b>OR</b> CAT-98A Introduction to Excel	1.5
	1.5

\*Note: ENGL-1B / ENGL-1BH course is recommended.

## Crime Scene Investigation (N)

NCE1041

Required Courses (21 units) – 7 courses

Certificate Course Requirements	Units
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-12 Introduction to Criminalistics	3
ADJ-13 Criminal Investigation	3
ADJ-14 Advanced Criminal Investigation	3
ADJ-27 Forensic & Crime Scene Photography <b>OR</b> PHO-27 Forensic & Crime Scene Photography	3

## Crime Scene Investigation (R)

CE1041

Required Courses (24 units) – 7 courses

Certificate Course Requirements	Units
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-12 Introduction to Criminalistics	3
ADJ-13 Criminal Investigation	3
ADJ-27 Forensic & Crime Scene Photography <b>OR</b> PHO-27 Forensic & Crime Scene Photography	3
ADJ-28 Crime Scene Investigation	3
ADJ-31 Cybercrime & Digital Forensics	3

## Digital Forensics Investigations (R)

CE1027

Required Courses (18 units) – 6 courses

Certificate Course Requirements	Units
ADJ-2 Principles & Procedures of the Justice System	3
ADJ-13 Criminal Investigation	3
ADJ-31 Cybercrime & Digital Forensics	3
CIS-1A Introduction to Computer Information Systems	3
CIS-21 Introduction to Operating Systems	3
CIS-27A Computer Forensics Fundamentals	3



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and Industry Sector  
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### Emergency Medical Technician (M) MCE801

Please note that separate application and additional requirements may be needed

**Required Courses (6 units) – 2 courses**

Certificate Course Requirements	Units
EMS-50 Emergency Medical Technician	5
EMS-51 Emergency Medical Services-Basic Clinical/Field	1

### Investigative Technician (R) CE980

**Required Courses (22 units) – 7 courses**

Certificate Course Requirements	Units
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-13 Criminal Investigation	3
ADJ-14 Advanced Criminal Investigation	3
ADJ-24 Interviewing and Interrogation	3
ENGL-C1000 Academic Reading and Writing	4

### Modern Policing (M)

Associate of Science Degree\*

**MAS1096/MAS1096C**

Please note that separate application and additional requirements may be needed

**Required Courses (48 units) – 15 courses**

Degree Course Requirements	Units
ADJ-1 Introduction to the Administration of Justice <b>OR</b> ADJ-1H Honors Introduction to the Administration of Justice	3
Choose one from the following:	
ADJ-2 Principles and Procedures of the Justice System	3
ADJ-4 Legal Aspects of Evidence	3
ADJ-8 Juvenile Law and Procedures	3
ADJ-13 Criminal Investigation	3
ADJ-3 Concepts of Criminal Law <b>OR</b> ADJ-3H Honors Concepts of Criminal Law	3
ADJ-5 Community Relations	3
ADJ-150 Ethics and Moral Reasoning in Criminal Justice	3
Choose one from the following:	
AHS-6 Art Appreciation	3
AHS-6H Honors Art Appreciation	3
ART-6 Art Appreciation	3
ART-6H Honors Art Appreciation	3
COMM-12 Intercultural Communication	3
COMM-C1000 Introduction to Public Speaking <b>OR</b> COMM-C1000H Introduction to Public Speaking - Honors	3
EAR-42 Child, Family, and Community <b>OR</b> SOC-20 Introduction To Criminology	3
ENGL-1B Critical Thinking and Writing <b>OR</b> ENGL-1BH Honors Critical Thinking and Writing	4
ENGL-C1000 Academic Reading and Writing <b>OR</b> ENGL-C1000H Academic Reading and Writing - Honors	4
ETS-1 Introduction to Ethnic Studies	3
PHI-12 Introduction to Ethics	3
PSYC-8 Social Psychology	3
Choose one from the following:	
STAT-C1000 Introduction to Statistics	4
STAT-C1000H Introduction to Statistics - Honors	4
PSYC-48 Statistics for the Behavioral Sciences	4
SOC-48 Statistics for the Behavioral Sciences	4

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## Modern Policing (N)

Associate of Science Degree\*

**NAS1096/NAS1096C**

Please note that separate application and additional requirements may be needed

### Required Courses (48 units) – 15 courses

Degree Course Requirements	Units
ADJ-1 Introduction to the Administration of Justice <b>OR</b>	3
ADJ-1H Honors Introduction to the Administration of Justice	3
Choose one from the following:	
ADJ-2 Principles and Procedures of the Justice System	3
ADJ-4 Legal Aspects of Evidence	3
ADJ-8 Juvenile Law and Procedures	3
ADJ-9 Law In American Society	3
ADJ-9H Honors Law in American Society	3
ADJ-13 Criminal Investigation	3
ADJ-3 Concepts of Criminal Law <b>OR</b>	3
ADJ-3H Honors Concepts of Criminal Law	3
ADJ-5 Community Relations	3
ADJ-150 Ethics and Moral Reasoning in Criminal Justice <b>OR</b>	3
PHI-12 Introduction to Ethics	3
Choose one from the following:	
AHS-5 Arts of Africa, Oceania, and Indigenous North America	3
HIS-14 African American History I	3
ETS-14 African American History I	3
HIS-31 Introduction to Chicanx and Latinx Studies	3
ETS-2 Introduction to Chicanx and Latinx Studies	3
HIS-7 United States History from 1865	3
HIS-7H Honors United States History from 1865	3
COMM-12 Intercultural Communication	3
COMM-C1000 Introduction to Public Speaking <b>OR</b>	3
COMM-C1000H Introduction to Public Speaking - Honors	3
EAR-42 Child, Family, and Community <b>OR</b>	3
SOC-20 Introduction To Criminology	3
ENGL-1B Critical Thinking and Writing <b>OR</b>	4
ENGL-1BH Honors Critical Thinking and Writing	4
ENGL-C1000 Academic Reading and Writing <b>OR</b>	4
ENGL-C1000H Academic Reading and Writing - Honors	4
ETS-1 Introduction to Ethnic Studies <b>OR</b>	3
SJS-110 Introduction to Social Justice Studies	3
PSYC-8 Social Psychology	3
Choose one from the following:	
STAT-C1000 Introduction to Statistics	4
STAT-C1000H Introduction to Statistics - Honors	4
PSYC-48 Statistics for the Behavioral Sciences	4
SOC-48 Statistics for the Behavioral Sciences	4

SJS-110 Introduction to Social Justice Studies <b>OR</b>	3
ETS-1 Introduction to Ethnic Studies	3
Choose one from the following:	
SOC-10 Race and Ethnic Relations	3
SOC-10H Honors Race and Ethnic Relations	3
ANT-2 Cultural Anthropology	3
ANT-2H Honors Cultural Anthropology	3
POLS-23 Race, Ethnicity and Politics in America	3
ETS-23 Race, Ethnicity, and Politics in America	3

## Fire Technology

### Firefighter Academy (M)

Associate of Science Degree\*

**MAS669/MAS669C/MCE669**

Please note that separate application and additional requirements may be needed

### Required Courses (23 units) – 15 courses

Degree Course Requirements	Units
FIT-S3 Basic Firefighter Academy	21.5
FIT-S3A Introduction to Fire Academy and Physical Conditioning for Fire Academy Students	1.5

### Fire Service Leadership (M)

Associate of Science Degree\*

**MAS895/MAS895C/MCE895**

### Required Courses (18 units) – 15 courses

Degree Course Requirements	Units
FIT-COHI Hazardous Materials Incident Commander	.5
FIT-C30 Intermediate Incident Command System (I-300)	.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-INS1 Instructor I	1
FIT-INS2 Instructor II	1.5
FIT-DO1A Fire Apparatus Driver/Operator	1
FIT-DO1B Pumping Apparatus Driver/Operator 1B (2017)	1.5

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

## Fire Technology (M)

Associate of Science Degree\*

MAS555/MAS555C/MCE555

Please note that separate application and additional requirements may be needed

**Required Courses (24 units) – 8 courses**

Degree 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 and Survival	3
EMS-50 Emergency Medical Technician	5
EMS-51 Emergency Medical Services - Basic Clinical/Field	1

## Homeland Security

### Emergency Management and Homeland Security (M)

Associate of Science Degree\*

MAS1086/MAS1086C/MCE1086

**Required Courses: (24-55.5 units) – 6-10 courses**

Degree Course Requirements	Units
HLS-1 Introduction to Homeland Security and Terrorism	3
HLS-2 Preparedness for Emergencies, Disasters & Homeland Security Incidents	3
HLS-3 Response to Emergencies, Disasters & Homeland Security Incidents	3
HLS-4 Recovery in Emergencies, Disasters & Homeland Security Incidents	3
HLS-101 Introduction to Emergency Management	3
<b>Electives (Select a minimum of 9 units from below):</b>	<b>Units</b>
ADJ-1 Introduction to the Administration of Justice <b>OR</b> ADJ-1H Introduction to the Administration of Justice Honors	3
ADJ-2 Principles and Procedures of the Justice System	3
ADH-3 Concepts of Criminal Law <b>OR</b> ADH-3H Concepts of Criminal Law Honors	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-19 Introduction to Policing	3
ADJ-20 Introduction to Corrections	3
ADJ-21 Control & Supervision in Corrections	3
ADJ-22 Legal Aspects of Corrections	3
ADJ-24 Interviewing & Interrogation	3
ADJ-40 Law Enforcement Crime Analysis	3
ADJ-41 Technology & Investigative Analysis	3
ADJ-42 Criminal Behavior and Intelligence Analysis	3
ADJ-43 Criminal Intelligence Analyst Simulations	3
ADJ-B1B Basic Peace Officer Training Academy	40.5
ADJ-C1D Basic Correctional Deputy Academy	15
ADJ-D1A Basic Public Safety Dispatch Course	8
ADJ-R1B Level II Modular Academy Training	10.5
ADJ-R1A2 Level III Modular Academy Training	7.5
ADJ-R1C Regular Basic Course, Modular Format, Module I Training	17.5
EMS-50 Emergency Medical Technician	5
EMS-51 Emergency Medical Services - Basic Clinical/Field	1
EMS-60 Patient Assessment and Airway Management	4
EMS-61 Introduction to Medical Pathophysiology	3
EMS-62 Emergency Pharmacology	4
EMS-63 Cardiology	4
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 and Survival	3
FIT-S3 Basic Fire Fighter Academy	12.5



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### Emergency Management and Homeland Security - Cybersecurity (M)

Associate of Science Degree\*

MAS1087/MAS1087C/MCE1087

Required Courses: (24 units) – 8 courses

Degree Course Requirements	Units
CIS-27 Information and Network Security	3
CIS-27A Computer Forensic Fundamentals	3
CIS-41A Principles of Cybersecurity Analysis	3
HLS-1 Introduction to Homeland Security and Terrorism	3
HLS-2 Preparedness for Emergencies, Disasters & Homeland Security Incidents	3
HLS-3 Response to Emergencies, Disasters & Homeland Security Incidents	3
HLS-4 Recovery in Emergencies, Disasters & Homeland Security Incidents	3
HLS-101 Introduction to Emergency Management	3

### Emergency Management and Homeland Security - Emergency Medical Services (M)

Associate of Science Degree\*

MAS1088/MAS1088C/MCE1088

Required Courses: (21 units) – 7 courses

Degree Course Requirements	Units
EMS-50 Emergency Medical Technician	5
EMS-51 Emergency Medical Services - Basic Clinical/Field	1
HLS-1 Introduction to Homeland Security and Terrorism	3
HLS-2 Preparedness for Emergencies, Disasters & Homeland Security Incidents	3
HLS-3 Response to Emergencies, Disasters & Homeland Security Incidents	3
HLS-4 Recovery in Emergencies, Disasters & Homeland Security Incidents	3
HLS-101 Introduction to Emergency Management	3

### Emergency Management and Homeland Security - Fire Technology (M)

Associate of Science Degree\*

MAS1089/MAS1089C/MCE1089

Required Courses: (24-27.5 units) – 6-9 courses

Degree Course Requirements	Units
HLS-1 Introduction to Homeland Security and Terrorism	3
HLS-2 Preparedness for Emergencies, Disasters & Homeland Security Incidents	3
HLS-3 Response to Emergencies, Disasters & Homeland Security Incidents	3
HLS-4 Recovery in Emergencies, Disasters & Homeland Security Incidents	3
HLS-101 Introduction to Emergency Management	3
<b>Electives (9-12.5 units):</b>	
<b>Units</b>	
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 and Survival	3
FIT-S3 Basic Fire Fighter Academy	12.5



For Types of Careers, Salary Snapshots, and Industry Sector Pathways, Scan Here!

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## Emergency Management and Homeland Security - Law Enforcement (M)

Associate of Science Degree\*

MAS1090/MAS1090C/MCE1090

Required Courses: (24-55.5 units) - 10 courses

Degree Course Requirements	Units
HLS-1 Introduction to Homeland Security and Terrorism	3
HLS-2 Preparedness for Emergencies, Disasters & Homeland Security Incidents	3
HLS-3 Response to Emergencies, Disasters & Homeland Security Incidents	3
HLS-4 Recovery in Emergencies, Disasters & Homeland Security Incidents	3
HLS-101 Introduction to Emergency Management	3
<b>Select a minimum of 9 units from the courses below:</b>	
ADJ-1 Introduction to the Administration of Justice <b>OR</b> ADJ-1H Introduction to the Administration of Justice Honors	3
ADJ-2 Principles and Procedures of the Justice System	3
ADH-3 Concepts of Criminal Law <b>OR</b> ADH-3H Concepts of Criminal Law Honors	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-19 Introduction to Policing	3
ADJ-20 Introduction to Corrections	3
ADJ-21 Control & Supervision in Corrections	3
ADJ-22 Legal Aspects of Corrections	3

ADJ-24 Interviewing & Interrogation	3
ADJ-40 Law Enforcement Crime Analysis	3
ADJ-41 Technology & Investigative Analysis	3
ADJ-42 Criminal Behavior and Intelligence Analysis	3
ADJ-43 Criminal Intelligence Analyst Simulations	3
ADJ-B1B Basic Peace Officer Training Academy	40
ADJ-C1D Basic Correctional Deputy Academy	15
ADJ-D1A Basic Public Safety Dispatch Course	6
ADJ-R1B Level II Modular Academy Training	10.5
ADJ-R1A2 Level III Modular Academy Training	7.5
ADJ-R1C Regular Basic Course, Modular Format, Module I Training	17

## Emergency Management and Homeland Security - Leadership (M)

Associate of Science Degree\*

MAS1091/MAS1091C/MCE1091

Required Courses: (27 units) – 9 courses

Degree Course Requirements	Units
HLS-1 Introduction to Homeland Security and Terrorism	3
HLS-2 Preparedness for Emergencies, Disasters & Homeland Security Incidents	3
HLS-3 Response to Emergencies, Disasters & Homeland Security Incidents	3
HLS-4 Recovery in Emergencies, Disasters & Homeland Security Incidents	3
HLS-50 Developing a Personal Philosophy of Leadership and Ethics	3
HLS-51 Leading Others Ethically	3
HLS-52 Ethical Leadership in Organizations	3
HLS-53 Ethics and the Challenge of Leadership	3
HLS-101 Introduction to Emergency Management	3



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# Law

## Law, Public Policy, and Society (M)

Associate in Arts for Transfer (ADT)\*\*

CalGETC MAA1008

**Required Courses (32-33 units)** – See College catalog for degree requirements.

Degree Course Requirements	Units
Choose one from the following:	
ADJ-1 Introduction to the Administration of Justice	3
ADJ-1H Honors 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-3H Honors Concepts of Criminal Law	3
BUS-18A Business Law I	3
PHI-12 Introduction to Ethics	3
Choose one from the following:	
COMM-C1000 Introduction to Public Speaking	3
COMM-C1000H Introduction to Public Speaking - Honors	3
COMM-3 Critical Thinking, Argumentative Writing, and Debate	3
COMM-6 Small Group Communication	3
ENGL-C1000 Academic Reading and Writing	4
<b>OR</b>	4
ENGL-C1000H Academic Reading and Writing - Honors	4
Choose one from the following:	
COMM-2 Introduction to Persuasion	3
COMM-3 Critical Thinking, Argumentative Writing, and Debate	3
ENGL-1B Critical Thinking and Writing	4
ENGL-1BH Honors Critical Thinking and Writing	4
STAT-C1000 Introduction to Statistics	4
STAT-C1000H Introduction to Statistics - Honors	4
PSYC-48 Statistics for the Behavioral Sciences	4
SOC-48 Statistics for the Behavioral Sciences	4
HIS-6 United States History to 1877	3
HIS-6H Honors United States History to 1877	3
HIS-7 United States History from 1865	3
HIS-7H Honors United States History from 1865	3
POLS-C1000 American Government and Politics	3
POLS-C1000H American Government and Politics - Honors	3
ADJ-9 Law In American Society	3
ADJ-9H Honors Law in American Society	3

Electives (Select ONE of the following courses from the areas below. The courses must not have been used previously):	Units
<b>Area 1: Administration of Justice/Criminal Justice/Criminology</b>	
ADJ-1 Introduction to the Administration of Justice	3
ADJ-1H Honors 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-3H Honors Concepts of Criminal Law	3
ADJ-4 Legal Aspects of Evidence	3
ADJ-5 Community Relations	3
ADJ-8 Juvenile Law and Procedures	3
ADJ-20 Introduction to Corrections	3
SOC-20 Introduction To Criminology	3
<b>Area 2: Business</b>	
BUS-18A Business Law I	3
<b>Area 3: Economics</b>	
ECO-7 Principles of Macroeconomics	3
ECO-7H Honors Principles of Macroeconomics	3
ECO-8 Principles of Microeconomics	3
ECO-8H Honors Principles of Microeconomics	3
<b>Area 4: Political Science</b>	
POLS-2 Comparative Politics	3
POLS-2H Honors Comparative Politics	3
POLS-3 Introduction to Politics	3
POLS-4 Introduction to World Politics	3
POLS-4H Honors Introduction to World Politics	3
POLS-11 Political Theory	3
<b>Area 5: Diversity</b>	
ANT-2 Cultural Anthropology	3
ANT-2H Honors Cultural Anthropology	3
COMM-12 Intercultural Communication	3
GEG-2 Human Geography	3
SOC-10 Race and Ethnic Relations	3
SOC-10H Honors Race and Ethnic Relations	3
<b>Area 6: College Success</b>	
GUI-48 College Success Strategies	3

\*\*Associate in Art for Transfer Degree

The Associate in Art in Law, Public Policy, and Society for Transfer degree will be awarded upon completion of 60 California State University (CSU) transferable units including the above major requirements and the California General Education Transfer Curriculum (Cal-GETC) requirements and with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of 'C' or better (or a 'P' if taken as Pass/No Pass).



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## Law, Public Policy, and Society (N)

Associate in Arts for Transfer (ADT)\*\*

CalGETC NAA1008

**Required Courses (32-33 units)** – See College catalog for degree requirements.

Degree Course Requirements	Units
Choose one from the following:	
ADJ-1 Introduction to the Administration of Justice	3
ADJ-1H Honors 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-3H Honors Concepts of Criminal Law	3
BUS-18A Business Law I	3
PHI-12 Introduction to Ethics	3
Choose one from the following:	
COMM-C1000 Introduction to Public Speaking	3
COMM-C1000H Introduction to Public Speaking - Honors	3
COMM-6 Small Group Communication	3
ENGL-C1000 Academic Reading and Writing	4
<b>OR</b>	4
ENGL-C1000H Academic Reading and Writing - Honors	4
Choose one from the following:	
COMM-2 Introduction to Persuasion	3
COMM-3 Critical Thinking, Argumentative Writing, and Debate	3
ENGL-1B Critical Thinking and Writing	4
ENGL-1BH Honors Critical Thinking and Writing	4
STAT-C1000 Introduction to Statistics	4
STAT-C1000H Introduction to Statistics - Honors	4
PSYC-48 Statistics for the Behavioral Sciences	4
SOC-48 Statistics for the Behavioral Sciences	4
HIS-6 United States History to 1877	3
HIS-6H Honors United States History to 1877	3
HIS-7 United States History from 1865	3
HIS-7H Honors United States History from 1865	3
POLS-C1000 American Government and Politics	3
POLS-C1000H American Government and Politics - Honors	3
<b>Electives (Select 6 units from below from two different areas. The courses must not have been used previously.):</b>	<b>Units</b>
<b>Area 1: Administration of Justice/Criminal Justice/Criminology</b>	
ADJ-1 Introduction to the Administration of Justice	3
ADJ-1H Honors 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-3H Honors Concepts of Criminal Law	3
ADJ-4 Legal Aspects of Evidence	3
ADJ-5 Community Relations	3
ADJ-8 Juvenile Law and Procedures	3
ADJ-20 Introduction to Corrections	3
SOC-20 Introduction To Criminology	3

<b>Area 2: Business</b>	
BUS-18A Business Law I	3
<b>Area 3: Economics</b>	
ECO-7 Principles of Macroeconomics	3
ECO-7H Honors Principles of Macroeconomics	3
ECO-8 Principles of Microeconomics	3
ECO-8H Honors Principles of Microeconomics	3
<b>Area 4: Political Science</b>	
POLS-2 Comparative Politics	3
POLS-4 Introduction to World Politics	3
POLS-4H Honors Introduction to World Politics	3
POLS-11 Political Theory	3
<b>Area 5: Public Policy</b>	
ADJ-9 Law In American Society	3
ADJ-9H Honors Law in American Society	3
ETS-1 Introduction to Ethnic Studies	3
POLS-5 Introduction to Law	3
SOC-2 American Social Problems	3
SJS-110 Introduction to Social Justice Studies	3
<b>Area 6: Diversity</b>	
ANT-2 Cultural Anthropology	3
ANT-2H Honors Cultural Anthropology	3
COMM-12 Intercultural Communication	3
GEG-2 Human Geography	3
SOC-10 Race and Ethnic Relations	3
SOC-10H Honors Race and Ethnic Relations	3
<b>Area 7: College Success</b>	
GUI-48 College Success Strategies	3
<b>Area 8: Internship/Fieldwork</b>	
ADJ-200 Administration of Justice Work Experience	1-4

\*\*Associate in Art for Transfer Degree

The Associate in Art in Law, Public Policy, and Society for Transfer degree will be awarded upon completion of 60 California State University (CSU) transferable units including the above major requirements and the California General Education Transfer Curriculum (Cal-GETC) requirements and with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of 'C' or better (or a 'P' if taken as Pass/No Pass).

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## Law, Public Policy, and Society (R)

Associate in Arts for Transfer (ADT)\*\*

CalGETC AA1008

**Required Courses (32-34 units)** – See College catalog for degree requirements.

Degree Course Requirements	Units
Choose one from the following:	
ADJ-1 Introduction to the Administration of Justice	3
ADJ-1H Honors 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-3H Honors Concepts of Criminal Law	3
PHI-12 Introduction to Ethics	3
Choose one from the following:	
COMM-C1000 Introduction to Public Speaking	3
COMM-C1000H Introduction to Public Speaking - Honors	3
COMM-6 Small Group Communication	3
ENGL-C1000 Academic Reading and Writing	4
<b>OR</b>	
ENGL-C1000H Academic Reading and Writing - Honors	4
Choose one from the following:	
COMM-2 Introduction to Persuasion	3
COMM-3 Critical Thinking, Argumentative Writing, and Debate	3
ENGL-1B Critical Thinking and Writing	4
ENGL-1BH Honors Critical Thinking and Writing	4
STAT-C1000 Introduction to Statistics	4
STAT-C1000H Introduction to Statistics - Honors	4
PSYC-48 Statistics for the Behavioral Sciences	4
SOC-48 Statistics for the Behavioral Sciences	4
HIS-6 United States History to 1877	3
HIS-6H Honors United States History to 1877	3
HIS-7 United States History from 1865	3
HIS-7H Honors United States History from 1865	3
POLS-C1000 American Government and Politics	3
POLS-C1000H American Government and Politics - Honors	3
<b>Electives (Select 6 units from below from two different areas. The courses must not have been used previously.):</b>	<b>Units</b>
<b>Area 1: Administration of Justice/Criminal Justice/Criminology</b>	
ADJ-1 Introduction to the Administration of Justice	3
ADJ-1H Honors 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-3H Honors Concepts of Criminal Law	3
ADJ-4 Legal Aspects of Evidence	3
ADJ-5 Community Relations	3
ADJ-8 Juvenile Law and Procedures	3
ADJ-20 Introduction to Corrections	3
SOC-20 Introduction To Criminology	3

<b>Area 2: Business</b>	
BUS-18A Business Law I	3
<b>Area 3: Economics</b>	
ECO-7 Principles of Macroeconomics	3
ECO-7H Honors Principles of Macroeconomics	3
ECO-8 Principles of Microeconomics	3
ECO-8H Honors Principles of Microeconomics	3
<b>Area 4: Political Science</b>	
POLS-2 Comparative Politics	3
POLS-2H Honors Comparative Politics	3
POLS-4 Introduction to World Politics	3
POLS-4H Honors Introduction to World Politics	3
POLS-11 Political Theory	3
<b>Area 5: Public Policy</b>	
ADJ-9 Law In American Society	3
ADJ-9H Honors Law in American Society	3
ETS-1 Introduction to Ethnic Studies	3
POLS-5 Introduction to Law	3
SOC-2 American Social Problems	3
<b>Area 6: Diversity</b>	
ANT-2 Cultural Anthropology	3
ANT-2H Honors Cultural Anthropology	3
COMM-12 Intercultural Communication	3
GEG-2 Human Geography	3
SOC-10 Race and Ethnic Relations	3
SOC-10H Honors Race and Ethnic Relations	3
SOC-25 Introduction to the Sociology of Sex and Gender	3
<b>Area 7: College Success</b>	
GUI-48 College Success Strategies	3
<b>Area 8: Internship/Fieldwork</b>	
ADJ-200 Administration of Justice Work Experience	1-4

\*\*Associate in Art for Transfer Degree

The Associate in Art in Law, Public Policy, and Society for Transfer degree will be awarded upon completion of 60 California State University (CSU) transferable units including the above major requirements and the California General Education Transfer Curriculum (Cal-GETC) requirements and with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of 'C' or better (or a 'P' if taken as Pass/No Pass).

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# Paralegal Studies

## Paralegal Studies (R)

Associate of Science Degree\*

AS591/AS591C

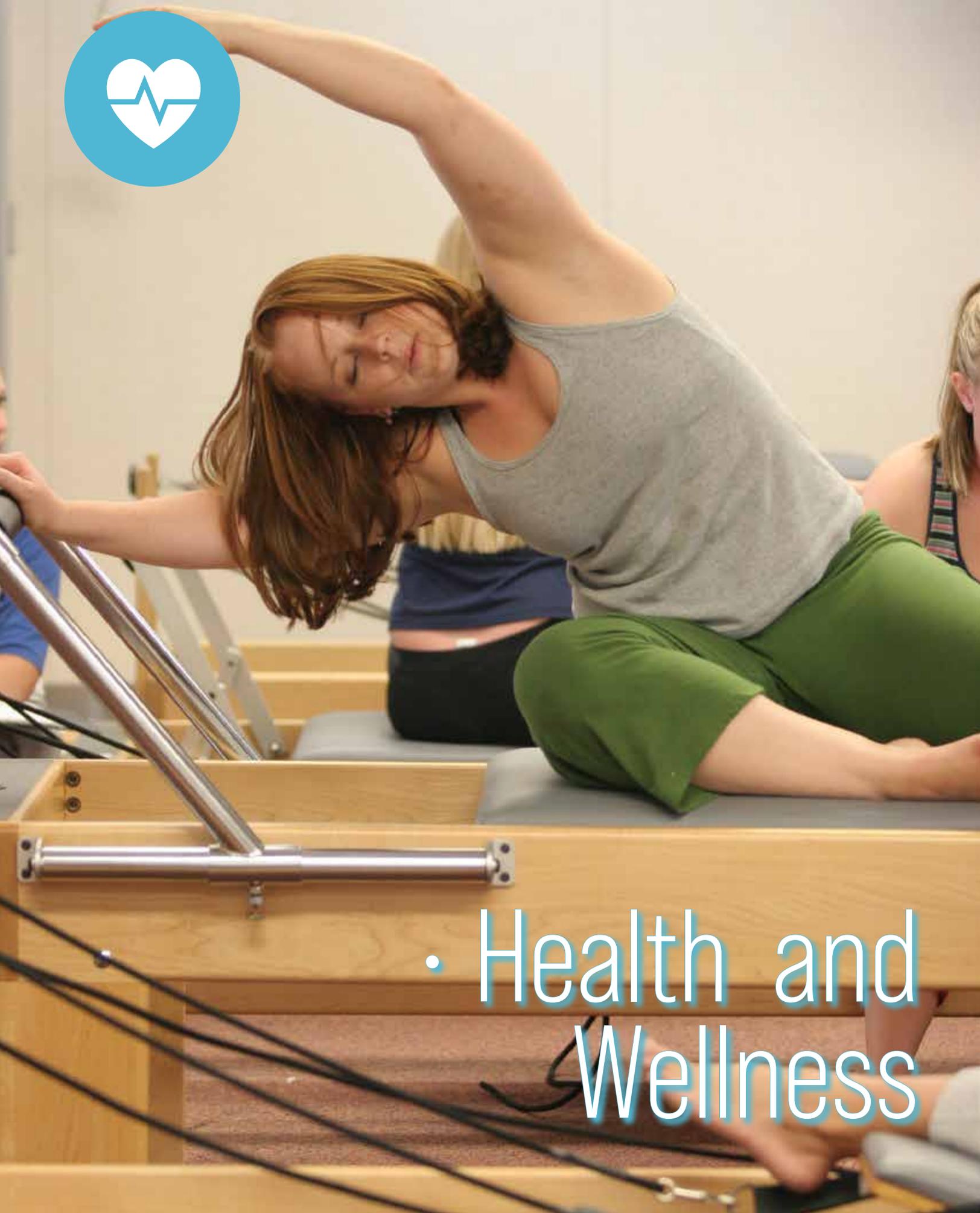
**Required Courses (37.5 units)** – See College catalog for degree requirements.

Degree Course Requirements	Units
<b>Level I Courses:</b>	
BUS-18A Business Law I	3
PAL-10 Introduction to Paralegal Studies	3
PAL-64 Legal Research and Computer Applications	3
PAL-65 Law Office Technology	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

Electives (Select 9 units from the following):	Units
BUS-15 Street Law: An Introduction to Law and Legal Issues	3
COMM-C1000 Introduction to Public Speaking <b>OR</b> COMM-C1000H Introduction to Public Speaking - Honors	3
COMM-3 Critical Thinking, Argumentative Writing, and Debate	3
PAL-80 Internship Project	1.5
PAL-81 Bankruptcy Law and Procedures	3
PAL-82 Immigration Law, Practice and Procedures	3
PAL-83 Estate Planning and Probate Procedures	3
PAL-84 Criminal Law and Procedure	3
PAL-85 Family Law and Procedures	3
PAL-86 Tort Law and Alternative Dispute Resolution	3
PAL-87 Trial Practice Preparation and Procedures	3
PAL-89 Sports Management and Entertainment Law	3
PAL-90 E-Discovery and Litigation Support Applications	3



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• Health and  
Wellness

# Anesthesia Technology

## Anesthesia Technology (R)

Associate of Science Degree\*

AS1068/AS1068C/CE1068

Required Courses (29 units) – 8 courses

Degree Course Requirements	Units
HCA-1 Professional Aspects of Anesthesia Technology	3
HCA-2 Basic Principles of Anesthesia Technology	4
HCA-3 Advanced Principles of Anesthesia Technology	4
HCA-4 Anesthesia Technology Pharmacology	3
HCA-5 Anesthesia Technology Clinical Experience I	4.5
HCA-6 Anesthesia Technology Clinical Experience II	4.5
HCA-7 Anesthesia Technology Case Study Development and Program Review	3
NNA-79 Medical Terminology for Healthcare Professionals	3

# Dance

## Pilates Dance/Conditioning Instructor (R)

CE981

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
<b>Select 3 units from one of the following options:</b>	
Option 1: Dance 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

Option 2: General Life 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 Assistant

## Dental Assistant (M)

Associate of Science Degree\*

MAS621/MAS621C/MCE621

Required Courses (33 units) – 13 courses

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

PROGRAM PREREQUISITE: Previous Academic GPA (either high school or college work, if attempted) of 2.0 or higher.

Degree 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	2

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# Dental Hygiene

## Dental Hygiene (M)

Associate of Science Degree\*

MAS724/MAS724C

**Required Courses (61.5 units) – 37 courses**

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

# Emergency Medical Services

## Emergency Medical Technician (M)

MCE801

**Required Courses (6 units) – 2 courses**

Certificate Course Requirements	Units
EMS-50 Emergency Medical Technician	5
EMS-51 Emergency Medical Services-Basic Clinical/Field	1



For Types of Careers,  
Salary Snapshots,  
and Industry Sector  
Pathways, Scan Here!

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## Paramedic (M)

Associate of Science Degree\*

MAS585/MAS585C/MCE585

Required Courses (38.5 units) – 12 courses

Degree Course Requirements	Units
EMS-60 Patient Assessment and Airway Management	4
EMS-61 Introduction to Medical Pathophysiology	3
EMS-62 Emergency Pharmacology	4
EMS-63 Cardiology	4
EMS-70 Trauma Management	2.5
EMS-71 Clinical Medical Specialty I	1.5
EMS-80 Medical Emergencies	4
EMS-81 Special Populations	3
EMS-82 Special Topics	2.5
EMS-83 Clinical Medical Specialty II	1.5
EMS-91 Paramedic Field Internship	8.5

## Exercise, Sports and Wellness

### Athletic Training Emphasis (R)

Associate of Science Degree\*

AS597/AS597C/CE597

Required Courses (29 units) – 11 courses

Degree Course Requirements	Units
KIN-4 Nutrition	3
KIN-10 Introduction to Kinesiology	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
<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, Spine, Torso, and Hip	2
KIN-20 Athletic Training, Spring Sports, General Medical	2
<b>Elective List B (4 units)</b>	
KIN-21A Athletic Training Applications A	2
KIN-21B Athletic Training Applications B	2

### Coaching Emphasis (R)

Associate of Science Degree\*

AS2002/AS2002C/CE2002

Required Courses (24 units) – 8 courses

Degree Course Requirements	Units
KIN-4 Nutrition	3
KIN-10 Introduction to Kinesiology	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
<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)

Associate of Science Degree\*

AS595/AS595C/CE595

Required Courses (24-25 units) – 8 courses

Degree Course Requirements	Units
KIN-4 Nutrition	3
KIN-10 Introduction to Kinesiology	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
<b>Elective Courses (3-4 units)</b>	
KIN-42 Lifeguard and Water Safety Instructor Certification	4
KIN-43 Personal Training	3
KIN-44A Yoga Instructor Fundamentals	3
KIN-45 Group Fitness Instructor	3

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## Fitness Professionals (M)

MCE1061

Required Courses (10 units) – 4 courses

Certificate Course Requirements	Units
KIN-4 Nutrition	3
KIN-43 Introduction to Personal Training	3
Choose one from the following:	
KIN-A81A Cardio and Strength Training, Beginning	1
KIN-A81B Cardio and Strength Training, Intermediate	1
KIN-A81C Cardio and Strength Training, Advance	1
<b>Select one of the following:</b>	<b>Units</b>
KIN-12 Sport Psychology	3
KIN-30 First Aid and CPR	3
KIN-35 Foundation for Fitness and Wellness	3

## Kinesiology

### Kinesiology (M)

Associate in Art for Transfer (ADT)\*\*

CalGETC MAA891

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

Degree Course Requirements	Units
KIN-10 Introduction to Kinesiology	3
BIO-50A Anatomy and Physiology I	4
BIO-50B Anatomy and Physiology II	4
<b>Elective Movements Courses (3 units)</b> Select one course maximum from any three of the following areas:	<b>Units</b>
<b>Combatives</b>	
KIN-A40 Karate, Beginning	1
KIN-A41 Karate, Intermediate	1
<b>Dance</b>	
DAN-D21 Ballet, Beginning	1
DAN-D31 Hip-Hop Dance, Beginning	1
<b>Fitness</b>	
KIN-A46 Yoga, Beginning	1
KIN-A47 Yoga, Intermediate	1
KIN-A75A Walking for Fitness, Beginning	1
KIN-A75B Walking for Fitness, Intermediate	1
KIN-A81A Cardio and Strength Training, Beginning	1

KIN-A81B Cardio and Strength Training, Intermediate	1
KIN-A86 Step Aerobics	1
KIN-A87 Step Aerobics, Intermediate	1
KIN-A89A Beginning Body Sculpting	1
KIN-A89B Intermediate Body Sculpting	1
<b>Team Sports</b>	
KIN-A62 Flag Football	1
KIN-A64A Soccer, Beginning	1
KIN-A64B Soccer, Intermediate	1
<b>List A: Select 2 courses from the following (6-9 units)</b>	<b>Units</b>
KIN-30 First Aid and CPR	3
PHY-4A Mechanics	4
Choose one from the following:	
STAT-C1000 Introduction to Statistics	4
STAT-C1000H Introduction to Statistics - Honors	4
PSYC-48 Statistics for the Behavioral Sciences	4
SOC-48 Statistics for the Behavioral Sciences	4
CHE-1A General Chemistry, I	5
<b>OR</b>	
CHE-1AH Honors General Chemistry, I	5
Choose one from the following:	
PSYC-C1000 Introduction to Psychology	3
PSYC-C1000H Introduction to Psychology - Honors	3
SOC-1 Introduction to Sociology	3

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## Kinesiology (R)

Associate in Art for Transfer (ADT)\*\*

CalGETC AA891

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

Degree Course Requirements	Units
KIN-10 Introduction to Kinesiology	3
BIO-50A Anatomy and Physiology I	4
BIO-50B Anatomy and Physiology II	4
<b>Elective Movements Courses (3 units)</b>	
Units	
Select one course maximum from any three of the following areas:	
<b>Aquatics</b>	
KIN-A28 Swimming, Beginning	1
KIN-A29 Swimming, Intermediate	1
KIN-A31A Beginning Hydro HIIT (High Intensity Interval Training)	1
KIN-A31B Intermediate Hydro HIIT (High Intensity Interval Training)	1
<b>Combatives</b>	
KIN-A43 T'ai-chi Ch'uan, Beginning	1
KIN-A44 T'ai-chi Ch'uan, Intermediate	1
<b>Dance</b>	
DAN-D21 Ballet, Beginning	1
DAN-D22 Ballet, Intermediate	1
DAN-D32 Jazz, Beginning	1
DAN-D33 Jazz, Intermediate	1
DAN-D43 Tap, Beginning	1
DAN-D44 Tap, Intermediate	1
<b>Fitness</b>	
KIN-A75A Walking for Fitness, Beginning	1
KIN-A75B Walking for Fitness, Intermediate	1
KIN-A77A Jogging for Fitness, Beginning	1
KIN-A77B Jogging for Fitness, Intermediate	1
KIN-A81A Cardio and Strength Training, Beginning	1
KIN-A81B Cardio and Strength Training, Intermediate	1
KIN-A89A Beginning Body Sculpting	1
KIN-A89B Intermediate Body Sculpting	1
KIN-A90A Weight Training - Beginning	1
KIN-A90B Weight Training - Intermediate	1

Individual Sports	
KIN-A08A Pickleball, Beginning	1
KIN-A11 Tennis, Beginning	1
KIN-A12 Tennis, Intermediate	1
KIN-A20 Golf, Beginning	1
KIN-A21 Golf, Intermediate	1
Team Sports	
KIN-A55 Slow Pitch Softball	1
KIN-A57A Basketball, Beginning	1
KIN-A57B Basketball, Intermediate	1
KIN-A62 Flag Football	1
KIN-A64A Soccer, Beginning	1
KIN-A64B Soccer, Intermediate	1
KIN-A67 Volleyball, Beginning	1
KIN-A68 Volleyball, Intermediate	1
KIN-A71 Beach Volleyball	1
<b>List A: Select 2 courses from the following (6-9 units)</b>	
Units	
KIN-30 First Aid and CPR	3
KIN-36 Wellness: Lifestyle Choices	3
Choose one from the following:	
STAT-C1000 Introduction to Statistics	4
STAT-C1000H Introduction to Statistics - Honors	4
PSYC-48 Statistics for the Behavioral Sciences	4
SOC-48 Statistics for the Behavioral Sciences	4
CHE-1A General Chemistry, I	5
<b>OR</b>	
CHE-1AH Honors General Chemistry, I	5
PHY-2A General Physics I	4
<b>OR</b>	
PHY-4A Mechanics	4
Choose one from the following:	
PSYC-C1000 Introduction to Psychology	3
PSYC-C1000H Introduction to Psychology - Honors	3
SOC-1 Introduction to Sociology	3
SOC-1H Honors Introduction to Sociology	3

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# Medical Assisting

## Administrative/Clinical Medical Assisting (M)

Associate of Science Degree\*

MAS718/MAS718C/MCE718

Required Courses (30 units) – 11 courses

Degree 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>Select at least one course from the following:</b>	
CAT-3 Computer Applications for Business <b>OR</b> CIS-3 Computer Applications for Business	3
CAT-80 Word Processing: Microsoft Word for Windows <b>OR</b> CIS-80 Word Processing: Microsoft Word for Windows	3
CIS-1A Introduction of Computer Information Systems	3

## Transcriptionist/Health Documentation Specialist (M)

Associate of Science Degree\*

MAS1040/MAS1040C/MCE1040

Required Courses (19-20 units) – 6 courses

Degree Course Requirements	Units
BIO-45 Survey of Human Anatomy and Physiology	3
CAT-30 Business English	3
MDA-10 Medical Terminology	3
MDA-58A Medical Transcription	5
<b>Elective Courses: 5-6 units</b>	
<b>Category A: Select at least one course from the following:</b>	
CAT-3 Computer Applications for Business <b>OR</b> CIS-3 Computer Applications for Business	3
CAT-50 Beginning Computer Keyboarding	3

CAT-80 Word Processing: Microsoft Word for Windows <b>OR</b> CIS-80 Word Processing: Microsoft Word for Windows	3
<b>Category B: Select at least one course from the following (2- 3 units):</b>	
MDA-11 Medical Documentation and Terminology	2
MDA-58B Advanced Medical Transcription	3
MDA-60 Survey of Human Diseases Processes	2
MDA-61 Pharmacology for Medical Office Personnel	2

# Nursing

## Acute Care Nursing Assistant (R)

CE1069

Required Courses (7-11 units) – 2-3 courses

Certificate Course Requirements	Units
NNA-86 Acute Care Nurse Assistant	2
Select one of the following groups:	5-9
Group 1	
NNA-80 Nursing Assistant Training Program (NATP)	5
Group 2	
NRN-11 Foundations of Nursing Practice Across the Lifespan <b>AND</b> NRN-11A Nursing Learning Laboratory	8.5 .5



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## Critical Care Nurse (R)

CE581

### Required Courses (5 units) – 1 course

Prerequisite: Completion of a RN program is required prior to enrolling in this course

Certificate Course Requirements	Units
NXN-81 Critical Care Nurse	5

## Home Health Aide (R)

CE1070

### Required Courses (6-10 units) – 2-3 courses

Certificate Course Requirements	Units
NNA-81 Certified Home Health Aide	1
Select one of the following groups:	5-9
Group 1	
NNA-80 Nursing Assistant Training Program (NATP)	5
Group 2	
NRN-11 Foundations of Nursing Practice Across the Lifespan <b>AND</b> NRN-11A Nursing Learning Laboratory	8.5 .5

## Nursing Assistant (R)

CE584

### Required Courses (5-9 units) – 1-2 courses

Certificate Course Requirements	Units
Select one of the following groups:	5-9
Group 1	
NRN-11 Foundations of Nursing Practice Across the Lifespan <b>AND</b> NRN-11A Nursing Learning Laboratory	8.5 .5
Group 2	
NNA-80 Nursing Assistant Training Program (NATP)	5

## Registered Nursing (R)

Associate of Science Degree\*

AS921/AS921C

### Required Courses (71 units) – 18 courses

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
PSYC-9 Developmental Psychology	3
Choose one from the following:	
SOC-1 Introduction to Sociology	3
SOC-1H Honors Introduction to Sociology	3
ANT-2 Cultural Anthropology	3
ANT-2H Honors Cultural Anthropology	3
ENGL-C1000 Academic Reading and Writing <b>OR</b> ENGL-C1000H Academic Reading and Writing - Honors	4 4
Choose one from the following:	
COMM-C1000 Introduction to Public Speaking	3
COMM-C1000H Introduction to Public Speaking - Honors	3
COMM-9 Interpersonal Communication	3
COMM-9H Honors Interpersonal Communication	3
Choose one from the following:	
STAT-C1000 Introduction to Statistics	4
STAT-C1000H Introduction to Statistics - Honors	4
PSYC-48 Statistics for the Behavioral Sciences	4
SOC-48 Statistics for the Behavioral Sciences	4
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-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
Choose one course from RCCD GE Area 3: Arts & Humanities	3
Choose one course from RCCD GE Area 6: Ethnic Studies	3



For Types of Careers,  
Salary Snapshots,  
and Industry Sector  
Pathways, Scan Here!

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## Vocational Nursing (R)

Associate of Science Degree\*

AS588/AS588C/CE588

Required Courses (49.50-54.5 units) – 11 courses

Degree Course Requirements	Units
NVN-42 Introductory Concepts of Vocational Nursing - Fundamentals and Mental Health	13
NVN-42A Nursing Learning Laboratory	.5
NVN-43 Intermediate Concepts of Vocational Nursing - Maternity and Pediatrics	5.5
NVN-44 Intermediate Concepts of Vocational Nursing - Medical/Surgical	13
NVN-44A Nursing Learning Laboratory	.5
NVN-45 Advanced Concepts of Vocational Nursing - Medical/Surgical	6
NVN-55A Vocational Nursing Practice and Nutrition Across the Lifespan	3
NVN-55B Principles of Pathophysiology	2
PSYC-9 Developmental Psychology	3
Select one of the following groups:	
Group 1	
BIO-45 Survey of Human Anatomy and Physiology	3
Group 2	
BIO-50A Anatomy and Physiology I	4
<b>AND</b>	
BIO-50B Anatomy and Physiology II	4

## Yoga Teacher Training (M)

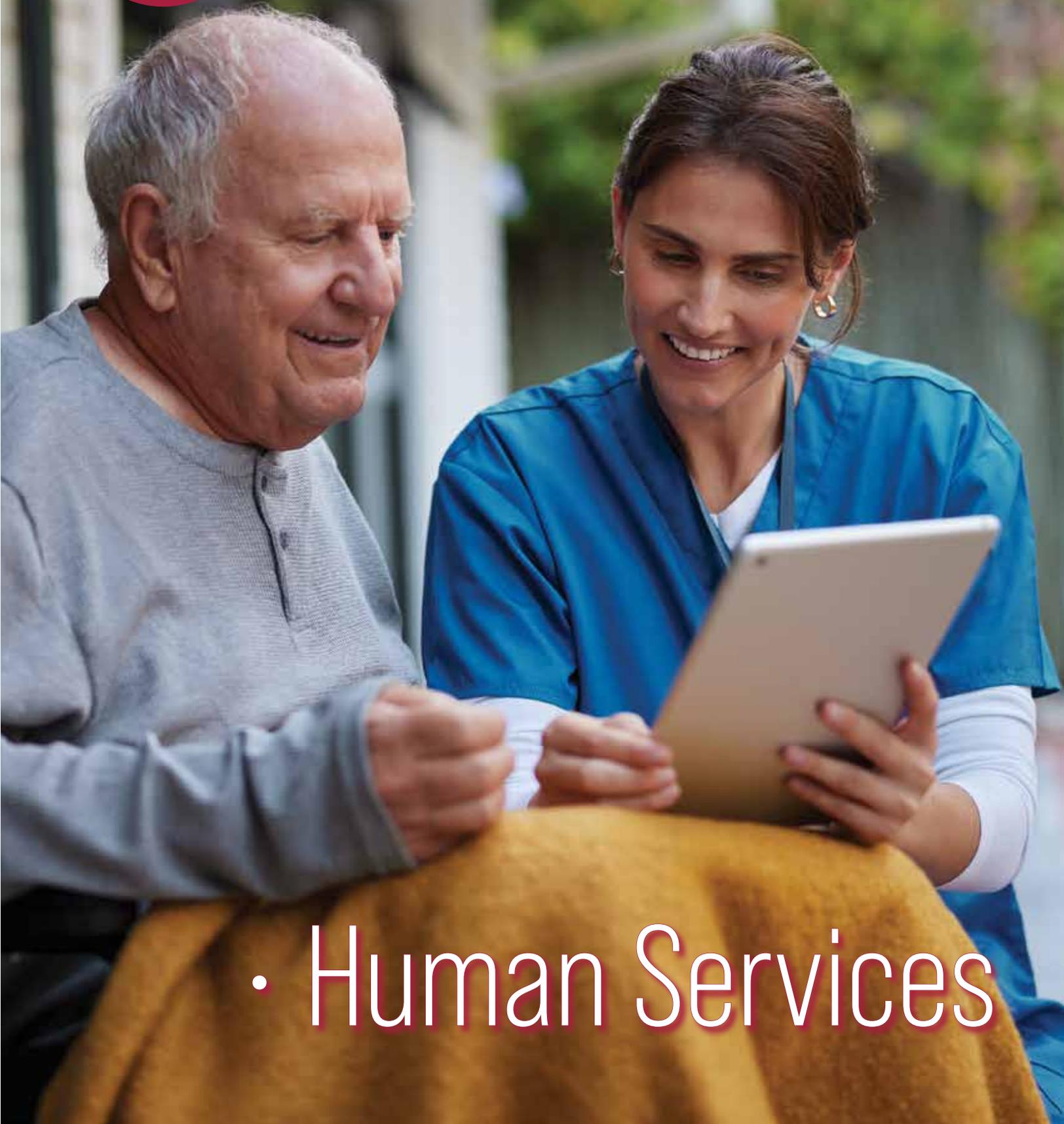
MCE1095

Required Courses (7 units) – 3 courses

Certificate Course Requirements	Units
KIN-44A Yoga Instructor Fundamentals	3
KIN-44B Yoga Instructor Methodologies	2
Choose one from the following:	
KIN-A46 Yoga, Beginning	1
KIN-A47 Yoga, Intermediate	1
KIN-A48 Yoga, Advanced	1



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• Human Services

# Sign Language Interpreting

## Sign Language Interpreting (R)

Associate of Science Degree\*

AA505/AA505C/CE505

Required Courses (28.5 units) – 8 courses

Degree 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



# Social Work, Human Services and Counseling Practices

## Behavioral Therapist (M)

MCE1044

Required Courses (13-16 units) – 5 courses

Certificate Course Requirements	Units
HMS-36 Counseling Families of Special Needs Youth	3
HMS-39 Introduction to Special Education and the IEP (Individualized Education Program)	3
HMS-200 Human Services Work Experience <b>OR</b> WKX-200 General Work Experience	1-4 1-4
Electives Courses (6 units)	Units
HMS-4 Introduction to Human Services	3
HMS-5 Introduction to Evaluation and Counseling	3
HMS-6 Introduction to Case Management	3
HMS-7 Introduction to Psychosocial Rehabilitation	3
HMS-8 Introduction to Group Process	3
HMS-13 Employment Support Strategies	3
HMS-14 Job Development	3
HMS-16 Public Assistance and Benefits	1
HMS-17 Introduction to Community Mental Health	3
HMS-18 Introduction to Social Work	3
HMS-19 Generalist Practices of Social Work	3
HMS-20 Medical Social Work	3
HMS-21 Social Justice in the Criminal Justice System	3
HMS-22 Human Behavior and the Social Environment	3
HMS-23 Law and Ethics in Social Work, Human Services, & Counseling Practices	3
HMS-24 Creative Arts Therapies and Self-Care for Helping Professionals	3
HMS-25 Crisis-Intervention Management	3
HMS-26 Trauma-Focused Counseling	3
HMS-27 Introduction to Multicultural Counseling	3
HMS-28 Military Social Work	3
HMS-29 Introduction to Careers in Social Work	3
HMS-30 Counseling of African Americans	3
HMS-31 Counseling of Latina and Latino Americans	3
HMS-32 Counseling of Asian Americans	3

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HMS-33 Counseling of Native Americans	3
HMS-34 Counseling Emotionally Disabled Students	3
HMS-35 Counseling Students with a Learning Disability	3
HMS-37 Counseling of Clients with Disabilities	3
HMS-38 Introduction to Applied Behavioral Analysis	3
HMS-40 Counseling Youth and Adolescents	3
HMS-41 Counseling and Resources for Survivors of Domestic Violence	3
HMS-42 Counseling and Resources for Families in the Child Welfare System	3
HMS-43 Counseling and Resources for Older Adults and Their Families	3
HMS-44 Counseling Youth in Gangs	3
HMS-45 Counseling Youth on Probation	3
HMS-46 Introduction to Resources and Counseling Individuals on Probation or Parole	3
HMS-47 Counseling of Residential Treatment Clients	3
HMS-48 Counseling and Case Management in Correctional Facilities	3
HMS-49 Careers in Social Work - Counseling Athletes	3
HMS-60 Introduction to Drugs and Alcohol	3
HMS-61 Evaluation of Narcotics and Controlled Substances	3
HMS-62 Introduction to the Diagnostic and Statistical Manual of Mental Disorders	3
HMS-70 Social Work Administration Studies - Non-Profit Organizations	3
HMS-71 Grant Writing Essentials	3
HMS-72 Social Work Administration Studies - Social Welfare Policy	3
HMS-73 Social Work Administration Studies - Administration in Social Work	3
HMS-74 Social Work Administration - Social Work Theory	3

### Child Welfare and Family Studies (M) MCE1038

#### Required Courses (16-19 units) - 6 courses

Certificate Course Requirements	Units
HMS-19 Generalist Practices of Social Work	3
HMS-22 Human Behavior and the Social Environment	3
HMS-42 Counseling and Resources for Families and the Child Welfare System	3
HMS-200 Human Services Work Experience	1-4
<b>OR</b> WKX-200 General Work Experience	1-4

Electives Courses (6 units)	Units
HMS-4 Introduction to Human Services	3
HMS-5 Introduction to Evaluation and Counseling	3
HMS-6 Introduction to Case Management	3
HMS-7 Introduction to Psychosocial Rehabilitation	3
HMS-8 Introduction to Group Process	3
HMS-13 Employment Support Strategies	3
HMS-14 Job Development	3
HMS-16 Public Assistance and Benefits	1
HMS-17 Introduction to Community Mental Health	3
HMS-18 Introduction to Social Work	3
HMS-20 Medical Social Work	3
HMS-21 Social Justice in the Criminal Justice System	3
HMS-23 Law and Ethics in Social Work, Human Services, & Counseling Practices	3
HMS-24 Creative Arts Therapies and Self-Care for Helping Professionals	3
HMS-25 Crisis-Intervention Management	3
HMS-26 Trauma-Focused Counseling	3
HMS-27 Introduction to Multicultural Counseling	3
HMS-28 Military Social Work	3
HMS-29 Introduction to Careers in Social Work	3
HMS-30 Counseling of African Americans	3
HMS-31 Counseling of Latina and Latino Americans	3
HMS-32 Counseling of Asian Americans	3
HMS-33 Counseling of Native Americans	3
HMS-34 Counseling Emotionally Disabled Students	3
HMS-35 Counseling Students with a Learning Disability	3
HMS-36 Counseling Families of Special Needs Youth	3
HMS-37 Counseling of Clients with Disabilities	3
HMS-38 Introduction to Applied Behavioral Analysis	3
HMS-39 Introduction to Special Education and the IEP (Individualized Education Program)	3
HMS-40 Counseling Youth and Adolescents	3
HMS-41 Counseling and Resources for Survivors of Domestic Violence	3
HMS-43 Counseling and Resources for Older Adults and Their Families	3
HMS-44 Counseling Youth in Gangs	3
HMS-45 Counseling Youth on Probation	3

**Continued on Next Page**

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

<b>Continued from Previous Page</b>	
HMS-46 Introduction to Resources and Counseling Individuals on Probation or Parole	3
HMS-47 Counseling of Residential Treatment Clients	3
HMS-48 Counseling and Case Management in Correctional Facilities	3
HMS-49 Careers in Social Work - Counseling Athletes	3
HMS-60 Introduction to Drugs and Alcohol	3
HMS-61 Evaluation of Narcotics and Controlled Substances	3
HMS-62 Introduction to the Diagnostic and Statistical Manual of Mental Disorders	3
HMS-70 Social Work Administration Studies - Non-Profit Organizations	3
HMS-71 Grant Writing Essentials	3
HMS-72 Social Work Administration Studies - Social Welfare Policy	3
HMS-73 Social Work Administration Studies - Administration in Social Work	3
HMS-74 Social Work Administration Studies - Social Work Theory	3

## Drug and Alcohol Studies (M)

Associate of Science Degree\*

**MAS1045/MAS1045C/MCE1045**

**Required Courses (32.5 units) – 10 courses**

<b>Degree Course Requirements</b>	<b>Units</b>
HMS-5 Introduction to Evaluation and Counseling	3
HMS-6 Introduction to Case Management	3
HMS-23 Law and Ethics in Social Work, Human Services, & Counseling Practices	3
HMS-24 Creative Arts Therapies and Self-Care for Helping Professionals	3
HMS-60 Introduction to Drugs and Alcohol	3
HMS-64 Introduction to Physiology and Pharmacology Related to Addiction	3
HMS-65 Supervised Practicum	3
HMS-66 Clinically Supervised Experience	5.5
<b>Electives Courses (6 units)</b>	<b>Units</b>
HMS-4 Introduction to Human Services	3
HMS-7 Introduction to Psychosocial Rehabilitation	3
HMS-8 Introduction to Group Process	3
HMS-13 Employment Support Strategies	3
HMS-14 Job Development	3
HMS-16 Public Assistance and Benefits	1

HMS-17 Introduction to Community Mental Health	3
HMS-18 Introduction to Social Work	3
HMS-19 Generalist Practices of Social Work	3
HMS-20 Medical Social Work	3
HMS-21 Social Justice in the Criminal Justice System	3
HMS-22 Human Behavior and the Social Environment	3
HMS-25 Crisis-Intervention Management	3
HMS-26 Trauma-Focused Counseling	3
HMS-27 Introduction to Multicultural Counseling	3
HMS-28 Military Social Work	3
HMS-29 Introduction to Careers in Social Work	3
HMS-30 Counseling of African Americans	3
HMS-31 Counseling of Latina and Latino Americans	3
HMS-32 Counseling of Asian Americans	3
HMS-33 Counseling of Native Americans	3
HMS-34 Counseling Emotionally Disabled Students	3
HMS-35 Counseling Students with a Learning Disability	3
HMS-36 Counseling Families of Special Needs Youth	3
HMS-37 Counseling of Clients with Disabilities	3
HMS-38 Introduction to Applied Behavioral Analysis	3
HMS-39 Introduction to Special Education and the IEP (Individualized Education Program)	3
HMS-40 Counseling Youth and Adolescents	3
HMS-41 Counseling and Resources for Survivors of Domestic Violence	3
HMS-42 Counseling and Resources for Families in the Child Welfare System	3
HMS-43 Counseling and Resources for Older Adults and Their Families	3
HMS-44 Counseling Youth in Gangs	3
HMS-45 Counseling Youth on Probation	3
HMS-46 Introduction to Resources and Counseling Individuals on Probation or Parole	3
HMS-47 Counseling of Residential Treatment Clients	3
HMS-48 Counseling and Case Management in Correctional Facilities	3
HMS-49 Careers in Social Work - Counseling Athletes	3
HMS-61 Evaluation of Narcotics and Controlled Substances	3
HMS-62 Introduction to the Diagnostic and Statistical Manual of Mental Disorders	3
HMS-70 Social Work Administration Studies - Non-Profit Organizations	3
HMS-71 Grant Writing Essentials	3

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HMS-72 Social Work Administration Studies - Social Welfare Policy	3
HMS-73 Social Work Administration Studies - Administration in Social Work	3
HMS-74 Social Work Administration - Social Work Theory	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

### Military Social Work (M) MCE903

#### Required Courses (17-20 units) – 7 courses

Certificate Course Requirements	Units
HMS-16 Public Assistance and Benefits	1
HMS-18 Introduction to Social Work	3
HMS-26 Trauma-Focused Counseling	3
HMS-28 Military Social Work	3
HMS-200 Human Services Work Experience <b>OR</b> WKX-200 Human Services Work Experience	1-4 1-4
Electives Courses (6 units)	Units
HMS-4 Introduction to Human Services	3
HMS-5 Introduction to Evaluation and Counseling	3
HMS-6 Introduction to Case Management	3
HMS-7 Introduction to Psychosocial Rehabilitation	3
HMS-8 Introduction to Group Process	3
HMS-13 Employment Support Strategies	3
HMS-14 Job Development	3
HMS-17 Introduction to Community Mental Health	3
HMS-19 Generalist Practices of Social Work	3
HMS-20 Medical Social Work	3
HMS-21 Social Justice in the Criminal Justice System	3
HMS-22 Human Behavior and the Social Environment	3
HMS-23 Law and Ethics in Social Work, Human Services, & Counseling Practices	3
HMS-24 Creative Arts Therapies and Self-Care for Helping Professionals	3
HMS-25 Crisis-Intervention Management	3

HMS-27 Introduction to Multicultural Counseling	3
HMS-29 Introduction to Careers in Social Work	3
HMS-30 Counseling of African Americans	3
HMS-31 Counseling of Latina and Latino Americans	3
HMS-32 Counseling of Asian Americans	3
HMS-33 Counseling of Native Americans	3
HMS-34 Counseling Emotionally Disabled Students	3
HMS-35 Counseling Students with a Learning Disability	3
HMS-36 Counseling Families of Special Needs Youth	3
HMS-37 Counseling of Clients with Disabilities	3
HMS-38 Introduction to Applied Behavioral Analysis	3
HMS-39 Introduction to Special Education and the IEP (Individualized Education Program)	3
HMS-40 Counseling Youth and Adolescents	3
HMS-41 Counseling and Resources for Survivors of Domestic Violence	3
HMS-42 Counseling and Resources for Families in the Child Welfare System	3
HMS-43 Counseling and Resources for Older Adults and Their Families	3
HMS-44 Counseling Youth in Gangs	3
HMS-45 Counseling Youth on Probation	3
HMS-46 Introduction to Resources and Counseling Individuals on Probation or Parole	3
HMS-47 Counseling of Residential Treatment Clients	3
HMS-48 Counseling and Case Management in Correctional Facilities	3
HMS-49 Careers in Social Work - Counseling Athletes	3
HMS-60 Introduction to Drugs and Alcohol	3
HMS-61 Evaluation of Narcotics and Controlled Substances	3
HMS-62 Introduction to the Diagnostic and Statistical Manual of Mental Disorders	3
HMS-70 Social Work Administration Studies - Non-Profit Organizations	3
HMS-71 Grant Writing Essentials	3
HMS-72 Social Work Administration Studies - Social Welfare Policy	3
HMS-73 Social Work Administration Studies - Administration in Social Work	3
HMS-74 Social Work Administration - Social Work Theory	3

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## Multicultural Counseling & Advocacy Resources (M)

MCE1039

### Required Courses (13-16 units) – 5 courses

Certificate Course Requirements	Units
HMS-27 Introduction to Multicultural Counseling	3
HMS-62 Introduction to the Diagnostic and Statistical Manual of Mental Disorders	3
HMS-200 Human Services Work Experience <b>OR</b> WKX-200 Human Services Work Experience	1-4 1-4
<b>Elective Courses (6 units)</b>	
	<b>Units</b>
HMS-18 Introduction to Social Work	3
HMS-22 Human Behavior and the Social Environment	3
HMS-30 Counseling of African Americans	3
HMS-31 Counseling of Latina and Latino Americans	3
HMS-32 Counseling of Asian Americans	3
HMS-33 Counseling of Native Americans	3
HMS-42 Counseling in Foster Care	3

## Social Justice System Studies (M)

MCE988

### Required Courses (17-20 units) – 7 courses

Certificate Course Requirements	Units
HMS-16 Public Assistance and Benefits	1
HMS-21 Social Justice in the Criminal Justice System	3
HMS-46 Introduction to Resources and Counseling Individuals on Probation or Parole	3
HMS-48 Counseling and Case Management in Correctional Facilities	3
HMS-200 Human Services Work Experience <b>OR</b> WKX-200 Human Services Work Experience	1-4 1-4
<b>Elective Courses (6 units)</b>	
	<b>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 Introduction to Psychosocial Rehabilitation	3
HMS-8 Introduction to Group Process	3
HMS-13 Employment Support Strategies	3
HMS-14 Job Development	3
HMS-17 Introduction to Community Mental Health	3

HMS-18 Introduction to Social Work	3
HMS-19 Generalist Practices of Social Work	3
HMS-20 Medical Social Work	3
HMS-22 Human Behavior and the Social Environment	3
HMS-23 Law and Ethics in Social Work, Human Services, & Counseling Practices	3
HMS-24 Creative Arts Therapies and Self-Care for Helping Professionals	3
HMS-25 Crisis-Intervention Management	3
HMS-26 Trauma-Focused Counseling	3
HMS-27 Introduction to Multicultural Counseling	3
HMS-28 Military Social Work	3
HMS-29 Introduction to Careers in Social Work	3
HMS-30 Counseling of African Americans	3
HMS-31 Counseling of Latina and Latino Americans	3
HMS-32 Counseling of Asian Americans	3
HMS-33 Counseling of Native Americans	3
HMS-34 Counseling Emotionally Disabled Students	3
HMS-35 Counseling Students with a Learning Disability	3
HMS-36 Counseling Families of Special Needs Youth	3
HMS-37 Counseling of Clients with Disabilities	3
HMS-38 Introduction to Applied Behavioral Analysis	3
HMS-39 Introduction to Special Education and the IEP (Individualized Education Program)	3
HMS-40 Counseling Youth and Adolescents	3
HMS-41 Counseling and Resources for Survivors of Domestic Violence	3
HMS-42 Counseling and Resources for Families and the Child Welfare System	3
HMS-43 Counseling and Resources for Older Adults and Their Families	3
HMS-44 Counseling Youth in Gangs	3
HMS-45 Counseling Youth on Probation	3
HMS-47 Counseling of Residential Treatment Clients	3
HMS-49 Careers in Social Work - Counseling Athletes	3
HMS-60 Introduction to Drugs and Alcohol	3
HMS-61 Evaluation of Narcotics and Controlled Substances	3
HMS-62 Introduction to the Diagnostic and Statistical Manual of Mental Disorders	3
HMS-70 Social Work Administration Studies - Non-Profit Organizations	3
HMS-71 Grant Writing	3

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HMS-72 Social Work Administration Studies - Social Welfare Policy	3
HMS-73 Social Work Administration Studies - Administration in Social Work	3
HMS-74 Social Work Administration Studies - Social Work Theory	3

## Social Work, Human Services, & Counseling Practices (M)

Associate of Science Degree\*

MAS987/MAS987C/MCE987

### Required Courses (20-23 units) – 8 courses

Degree 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-200 Human Services Work Experience <b>OR</b> WXX-200 Human Services Work Experience	1-4 1-4
Electives (6 units)	Units
HMS-7 Introduction to Psychosocial Rehabilitation	3
HMS-13 Employment Support Strategies	3
HMS-14 Job Development	3
HMS-17 Introduction to Community Mental Health	3
HMS-18 Introduction to Social Work	3
HMS-19 Generalist Practices of Social Work	3
HMS-20 Medical Social Work	3
HMS-21 Social Justice in the Criminal Justice System	3
HMS-22 Human Behavior and the Social Environment	3
HMS-23 Law and Ethics in Social Work, Human Services, & Counseling Practices	3
HMS-24 Creative Arts Therapies and Self-Care for Helping Professionals	3
HMS-25 Crisis-Intervention Management	3
HMS-26 Trauma-Focused Counseling	3
HMS-27 Introduction to Multicultural Counseling	3
HMS-28 Military Social Work	3
HMS-29 Introduction to Careers in Social Work	3
HMS-30 Counseling of African Americans	3
HMS-31 Counseling of Latina and Latino Americans	3
HMS-32 Counseling of Asian Americans	3

HMS-33 Counseling of Native Americans	3
HMS-34 Counseling Emotionally Disabled Students	3
HMS-35 Counseling Students with a Learning Disability	3
HMS-36 Counseling Families of Special Needs Youth	3
HMS-37 Counseling of Clients with Disabilities	3
HMS-38 Introduction to Applied Behavioral Analysis	3
HMS-39 Introduction to Special Education and the IEP (Individualized Education Program)	3
HMS-40 Counseling Youth and Adolescents	3
HMS-41 Counseling Survivors of Domestic Violence	3
HMS-42 Counseling and Resources for Families and the Child Welfare System	3
HMS-43 Counseling and Resources for Older Adults and Their Families	3
HMS-44 Counseling Youth in Gangs	3
HMS-45 Counseling Youth on Probation	3
HMS-46 Introduction to Resources and Counseling Individuals on Probation or Parole	3
HMS-47 Counseling of Residential Treatment Clients	3
HMS-48 Counseling and Case Management in Correctional Facilities	3
HMS-49 Careers in Social Work - Counseling Athletes	3
HMS-60 Introduction to Drugs and Alcohol	3
HMS-61 Evaluation of Narcotics and Controlled Substances	3
HMS-62 Introduction to the Diagnostic and Statistical Manual of Mental Disorders	3
HMS-70 Social Work Administration Studies - Non-Profit Organizations	3
HMS-71 Grant Writing	3
HMS-72 Social Work Administration Studies - Social Welfare Policy	3
HMS-73 Social Work Administration Studies - Administration in Social Work	3
HMS-74 Social Work Administration Studies - Social Work Theory	3



**For Types of Careers,  
Salary Snapshots,  
and Industry Sector  
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• Manufacturing

# 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 (2x)	8
<b>Electives (6-8 units)</b>	
DFT-42 SolidWorks I <b>OR</b> ENE-42 SolidWorks I	3
DFT-51 Print Reading <b>OR</b> ENE-51 Print Reading	2
ELE-55 Occupational Safety and Health Administration (OSHA) Standards for General Industry <b>OR</b> MAN-55 Occupational Safety and Health Administration (OSHA) Standards for General Industry	1
ENE-30 Computer Aided Drafting (CAD)	3
ENE-62 Math for Automated Systems	3
MAN-35 Computer Aided Manufacturing	5
MAN-56 CNC Machine Set-up and Operation	4
MAN-57 CNC Program Writing	3



## Apprenticeship: Manufacturing Technician II (N) Associate of Science Degree\* NAS967/NAS967C/NCE967

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

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

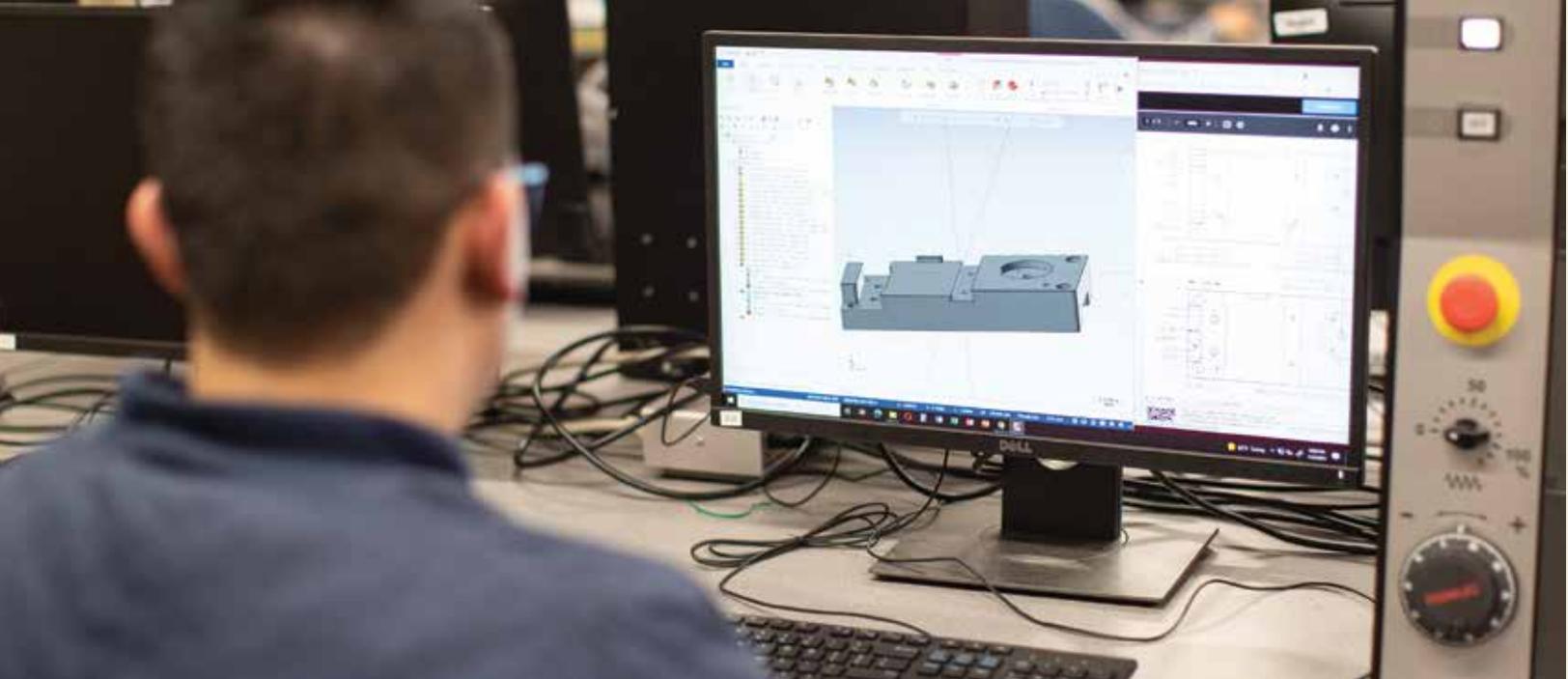
## Computer Numerical Control Programming (N)

Associate of Science Degree\*  
NAS655/NAS655C/NCE655

Required Courses (27-28 units) – 9 courses

Degree Course Requirements	Units
ENE-30 Computer Aided Drafting (CAD)	3
ENE-42 SolidWorks I	3
ENE-51 Print Reading	2
ENE-52 Geometric Dimensioning and Tolerancing	2
ENE-60 Math for Engineering Technology <b>OR</b> MAT-36 Trigonometry	3
MAN-35 Computer-Aided Manufacturing-Mastercam	4
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

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## Computer Numerical Control (CNC) Operator (N) NCE966

Required Courses (17 units) – 6 courses

Certificate Course Requirements	Units
DFT-42 SolidWorks I <b>OR</b> ENE-42 SolidWorks I	3
DFT-51 Print Reading <b>OR</b> ENE-51 Print Reading	2
MAN-36 General Machine Shop and Theory of Machining	4
ELE-55 Occupational Safety and Health Administration (OSHA) Standards for General Industry <b>OR</b> 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

## Conventional Machine Operator (N) NCE865

Required Courses (10 units) – 4 courses

Certificate Course Requirements	Units
DFT-42 SolidWorks I <b>OR</b> ENE-42 SolidWorks I	3
DFT-51 Print Reading <b>OR</b> ENE-51 Print Reading	2
MAN-36 General Machine Shop and Theory of Machining	4
ELE-55 Occupational Safety and Health Administration (OSHA) Standards for General Industry <b>OR</b> MAN-55 Occupational Safety and Health Administration (OSHA) Standards for General Industry	1

## Facility Maintenance (N)

Associate of Science Degree\*

NAS771/NAS771C/NCE771

Required Courses (25-26 units) – 9 courses

Degree Course Requirements	Units
CON-66 National Electrical Code <b>OR</b> ELC-66 National Electrical Code	3
DFT-51 Print Reading <b>OR</b> ENE-51 Print Reading	2
ELC-68 Fundamentals of Maintenance <b>OR</b> MAN-68 Fundamentals of Maintenance	3
ELC-69 Fundamentals of Tooling and Test Equipment <b>OR</b> MAN-69 Fundamentals of Tooling and Test Equipment	2
ELC-77 Electrical Theory for Electricians <b>OR</b> ELE-77 Electrical Theory for Electricians <b>OR</b> MAN-77 Electrical Theory for Electricians	3
ELE-27 Technical Communications <b>OR</b> ENE-27 Technical Communications	3
ELE-55 Occupational Safety and Health Administration (OSHA) Standards for General Industry <b>OR</b> MAN-55 Occupational Safety and Health Administration (OSHA) Standards for General Industry	1
ENE-60 Math for Engineering Technology <b>OR</b> MAT-36 Trigonometry	3
MAN-60 Hydraulic and Pneumatics Systems	4
	3

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

## Industrial Automation (N)

Associate of Science Degree\*

NAS737/NAS737C/NCE737

Required Courses (24-25 units) – 8 courses

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

### Industrial Automation (N) NCC8039

Required Courses (576 hours) – 8 courses

Certificate Course Requirements	Hours
ELE-810 Survey of Electronics	90
ELE-827 Technical Communications	54
ELE-855 Occupational Safety and Health Administration (OSHA) Standards for General Industry	18
ELE-864 Programmable Logic Controllers	90
ELE-874 Industrial Wiring and Controls	108
ENE-851 Blueprint Reading	54
ENE-862 Math for Automated Systems	54
MAN-860 Hydraulic and Pneumatic Systems	108

## Robotics

### Robotics Specialist (N) NCE1100

Required Courses (15 units) – 5 courses

Certificate Course Requirements	Units
MAN-10 Manufacturing Basic Operations	4
MAN-11 Manufacturing Advanced Operations	4
MAN-12 Robot Systems Basic Operations	3
MAN-13 Robot Systems Advanced Operations	2
MAN-15 Industry 4.0 Total Productive Maintenance	2



For Types of Careers,  
Salary Snapshots,  
and Industry Sector  
Pathways, Scan Here!

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

# Supply Chain Technology

## Supply Chain Automation (N)

Associate of Science Degree\*

NAS924/NAS924C/NCE924

Required Courses (32-33 units) – 10 courses

Degree 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 4
MAN-55/ELE-55 Occupational Safety and Health Administration (OSHA) Standards for General Industry	1
MAN-60 Hydraulic and Pneumatic Systems	3
SCT/SCA-1 Introduction to Automated Warehousing	3

# Welding Technology

## Pipe Welding (R)

CE982

Required Courses (13 units) – 5 courses

Certificate Course Requirements	Units
WEL-24 Pipe Fitting for the Trades	2
WEL-26 Pipe Layout	2
WEL-65A Beginning Shielded Metal Arc Welding (SMAW)	3
WEL-75A Gas Metal Arc Welding	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)

Associate of Science Degree\*

AS606/AS606C/CE606

Required Courses (28 units) – 10 courses

Degree 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-24 Pipe Fitting for the Trades	2
WEL-26 Pipe Layout	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

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# • Culinary Arts



## Baking and Pastry

### Advanced Professional Skills in Baking & Pastry Arts (R) CE1064

Please note that separate application and additional requirements may be needed

**Required Courses (10 units) – 5 courses**

Certificate Course Requirements	Units
BAK-80 Plated Desserts and Sauces	2
BAK-81 Candies, Confections, and Treats	2
BAK-82 Advanced Cake Decorating Techniques	2
BAK-83 Chocolate Techniques and Bonbons	2
BAK-84 Sugar Artistry and Pastillage	2

### Baking and Pastry Arts (R)

Associate of Science Degree\*

AS909/AS909/CE909

Please note that separate application and additional requirements may be needed

**Required Courses (25 units) – 5 courses**

Degree Course Requirements	Units
BAK-46 Fundamentals of Baking and Pastry	8.5
BAK-47 Advanced Baking and Pastry	8.5
CUL-50 ServSafe Food Safety	2
KIN-4 Nutrition	3
MAG-56 HRM: Human Resources Management	3

### Cake Decorating (R)

CE1025

Please note that separate application and additional requirements may be needed

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

Certificate Course Requirements	Units
CUL-22 Cake Decorating I	2
CUL-23 Cake Decorating II	2

### Intermediate Professional Skills in Baking & Pastry Arts (R)

CE1065

Please note that separate application and additional requirements may be needed

**Required Courses (10 units) – 6 courses**

Certificate Course Requirements	Units
BAK-70 Cake Mixing Techniques	1.5
BAK-71 Pies, Tarts, and Fillings	1.5
BAK-72 Quickbreads, Muffins and Pastries	1.5
BAK-73 Buttercreams and Cake Assembly Techniques	1.5
BAK-74 Cost Control for Professional Skills in Baking	2
CUL-50 ServSafe Food Safety	2

### Introduction to Professional Skills in Baking & Pastry Arts (R)

CE1066

Please note that separate application and additional requirements may be needed

**Required Courses (10 units) – 6 courses**

Certificate Course Requirements	Units
BAK-65 Introduction to Breads, Rolls and Pastry Basics	1.5
BAK-66 Artisanal and Specialty Breads	1.5
BAK-67 Viennoiserie & Breakfast Pastries	1.5
BAK-68 Cookies and Brownies	1.5
BAK-69 Custards and Creams	2
CUL-50 ServSafe Food Safety	2



For Types of Careers,  
Salary Snapshots,  
and Industry Sector  
Pathways, Scan Here!

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## Professional Skills of Baking & Pastry Arts (R)

CE1067

Please note that separate application and additional requirements may be needed

Required Courses (28 units) – 16 courses

Certificate Course Requirements	Units
CUL-50 ServSafe Food Safety	2
BAK-65 Introduction to Breads, Rolls and Pastry Basics	1.5
BAK-66 Artisanal and Specialty Breads	1.5
BAK-67 Viennoiserie & Breakfast Pastries	1.5
BAK-68 Cookies and Brownies	1.5
BAK-69 Custards and Creams	2
BAK-70 Cake Mixing Techniques	1.5
BAK-71 Pies, Tarts, and Fillings	1.5
BAK-72 Quickbreads, Muffins and Pastries	1.5
BAK-73 Buttercreams and Cake Assembly Techniques	1.5
BAK-74 Cost Control for Professional Skills in Baking	2
BAK-80 Plated Desserts and Sauces	2
BAK-81 Candies, Confections, and Treats	2
BAK-82 Advanced Cake Decorating Techniques	2
BAK-83 Chocolate Techniques and Bonbons	2
BAK-84 Sugar Artistry and Pastillage	2



## Baking and Pastry-Noncredit

### Advanced Professional Skills in Baking & Pastry Arts (R)

CC8048

Please note that separate application and additional requirements may be needed

Required Courses (300 hours) – 5 courses

Certificate Course Requirements	Hours
BAK-880 Plated Desserts and Sauces	60
BAK-881 Candies, Confections, and Treats	60
BAK-882 Advanced Cake Decorating Techniques	60
BAK-883 Chocolate Techniques and Bonbons	60
BAK-884 Sugar Artistry and Pastillage	60

### Intermediate Professional Skills in Baking & Pastry Arts (R)

CC8049

Please note that separate application and additional requirements may be needed

Required Courses (270 hours) – 6 courses

Certificate Course Requirements	Hours
CUL-850 ServSafe Food Safety	36
BAK-870 Cake Mixing Techniques	45
BAK-871 Pies, Tarts, and Fillings	45
BAK-872 Quickbreads, Muffins and Pastries	45
BAK-873 Buttercreams and Cake Assembly Techniques	45
BAK-874 Cost Control for Professional Skills in Baking	54

### Introduction to Professional Skills in Baking & Pastry Arts (R)

CC8050

Please note that separate application and additional requirements may be needed

Required Courses (276 hours) – 6 courses

Certificate Course Requirements	Hours
CUL-850 ServSafe Food Safety	36
BAK-865 Introduction to Breads, Rolls and Pastry Basics	45
BAK-866 Artisanal and Specialty Breads	45
BAK-867 Viennoiserie & Breakfast Pastries	45
BAK-868 Cookies and Brownies	45
BAK-869 Custards and Creams	60

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## Professional Skills of Baking & Pastry Arts (R)

CC8051

Please note that separate application and additional requirements may be needed

Required Courses (810 hours) – 16 courses

Certificate Course Requirements	Hours
CUL-850 ServSafe Food Safety	36
BAK-865 Introduction to Breads, Rolls and Pastry Basics	45
BAK-866 Artisanal and Specialty Breads	45
BAK-867 Viennoiserie & Breakfast Pastries	45
BAK-868 Cookies and Brownies	45
BAK-869 Custards and Creams	60
BAK-870 Cake Mixing Techniques	45
BAK-871 Pies, Tarts, and Fillings	45
BAK-872 Quickbreads, Muffins and Pastries	45
BAK-873 Buttercreams and Cake Assembly Techniques	45
BAK-874 Cost Control for Professional Skills in Baking	54
BAK-880 Plated Desserts and Sauces	60
BAK-881 Candies, Confections, and Treats	60
BAK-882 Advanced Cake Decorating Techniques	60
BAK-883 Chocolate Techniques and Bonbons	60
BAK-884 Sugar Artistry and Pastillage	60

## Culinary Arts

### Culinary Arts (R)

Associate of Science Degree\*

AS2000/AS2000C/CE2000

Please note that separate application and additional requirements may be needed

Required Courses (33.5 units) – 6 courses

Degree Course Requirements	Units
CUL-20 Fundamentals of Baking	2
CUL-36 Introduction to Culinary Arts	8.5
CUL-37 Intermediate Culinary Arts	8.5
CUL-38 Advanced Culinary Arts	8.5
KIN-4 Nutrition	3
MAG-56 HRM: Human Resources Management	3

## Foundational Culinary Arts (R)

CE1028

Please note that separate application and additional requirements may be needed

Required Courses (25.5 units) – 3 courses

Certificate Course Requirements	Units
CUL-36 Introduction to Culinary Arts	8.5
CUL-37 Intermediate Culinary Arts	8.5
CUL-38 Advance Culinary Arts	8.5

## Culinary Arts- Noncredit

### Food Service Career and Certification Preparation (R)

CC8025

Required Courses (246 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 ServSafe Food Safety	36

### 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



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## Retail Management

### Retail Management/ Western Association of Food Chains (WAFC) (N)

Associate of Science Degree\*

NAS536/NAS536C/NCE536

Required Courses (30 units) – 10 courses

Degree Course Requirements	Units
ACC-1A Principles of Accounting I <b>OR</b>	3
ACC/CAT-55 Applied Accounting/Bookkeeping	3
BUS-20 Business Mathematics	3
BUS-22 Management Communications <b>OR</b>	3
BUS-24 Business Communications	3
CIS-1A Introduction to Computer Information Systems <b>OR</b>	3
CIS/CAT-3 Computer Applications for Business	3
Choose one from the following:	
COMM-C1000/C1000H Introduction to Public Speaking	3
COMM-9/9H Interpersonal Communication	3
MAG-57 Oral Communications	3
MAG-44 Principles of Management <b>OR</b>	3
MAG-51 Elements of Supervision	3
MAG-53 Human Relations	3
MAG-56 HRM: Human Resources Management	3
MKT-20 Principles of Marketing	3
MKT-42 Retail Management	3



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

## SPONSORS

LAUNCH

IECI

- San Bernardino County Workforce Development Board
- Riverside Community College District
- Tomorrow's Talent
- Southern California Plumbing Institute, Local 200

## PLANNING PARTNERS

San Bernardino County  
Superintendent of Schools



• Apprenticeships

All colleges in the Riverside Community College District have apprenticeships available to students. For more information, please see the pages referenced below, and ask your counselor how to sign up for the apprenticeship programs



- CYBERSECURITY (page 48)
- EARLY CHILDHOOD EDUCATION (page 59, 60)
- HEALTH AND SOCIAL SERVICES (page 92-97)
- INFORMATION TECHNOLOGY (page 47)
- PARAMEDIC (page 85)

There are also registered pre-apprenticeships for these apprenticeship pathways.



<https://mvc.edu/student-support/career-transfer/apprenticeship/index.php>



APPRENTICESHIP, CARPENTRY

- Concrete (page 6)
- Acoustical Installer (page 6)
- Drywall Finisher (page 7)
- Drywall/Lather (page 7)
- Finish Carpentry (page 7)
- Framing (page 8)
- Tilt-Up (page 8)

EARLY CHILDHOOD EDUCATION (page 59, 60)

ELECTRICIAN APPRENTICESHIP (page 66)

INDUSTRIAL AUTOMATION (page 101)

MANUFACTURING TECHNICIAN I (page 99)

MANUFACTURING TECHNICIAN II (page 99)

SOUND AND COMMUNICATION SYSTEMS INSTALLER APPRENTICESHIP (page 11)



<https://www.norcocollege.edu/sc/apprenticeship/index.html>



- AUTOMOTIVE (page 24)
  - Automotive Mechanic and Technician
  - Master Technician
- CULINARY (page 104)
- CYBER SECURITY
  - IT Support Technician (page 48)
  - Cyber Security Specialist (Page 45, 47)
- EARLY CHILDHOOD EDUCATION (page 59, 60)
  - Teacher
  - Master Teacher
  - Site Supervisor

LICENSED VOCATIONAL NURSE (page 90)

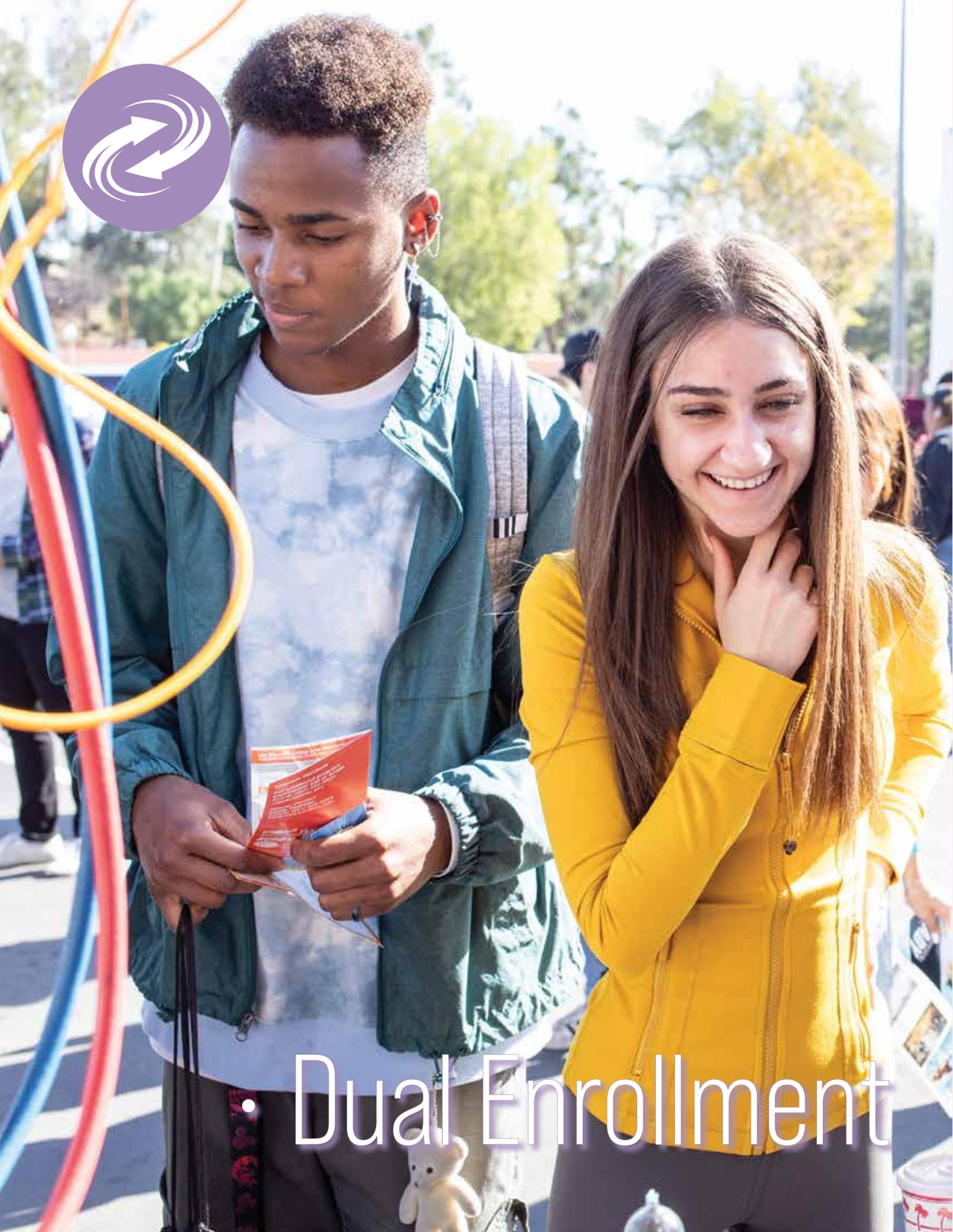
REGISTERED NURSE (Page 89)

**Coming Soon!**

ACCOUNTING ASSOCIATE APPRENTICESHIP

<https://www.rcc.edu/academics/apprenticeship.html>





# • Dual Enrollment

# • Attention High School Students!

Did you know that many students start their Career and Technical Education while they are still in High School? In fact, there are some seniors who earn an associate degree or certificate while they are working toward their high school diploma.

***The first step is talking to your high school counselor about your dual enrollment options.***

You may be eligible for free tuition through the College and Career Access Pathways (CCAP) partnership between your high school and

the community college; another option is the traditional (Non-CCAP) dual enrollment programs that are also available; some students enroll full time in a Middle College/Early College high school program; and still others just take college courses at their local community college while they are attending a regular high school (concurrent enrollment).

The point is, there are lots of options to explore, even as a freshman in high school. Your counselor can work with you to find the right program.

## CTE Courses Offered at Local High Schools:

K12 Organizations	High School (offering course)	High School Pathway	Community College	Community College Course ID & Title
Riverside Unified	Arlington High		Riverside City College	BUS-10 Introduction to Business
Moreno Valley Unified	Canyon Springs High	Information Support and Services	Moreno Valley College	CIS-1A Introduction to Computer Information Systems
Moreno Valley Unified	Canyon Springs High	Information Support and Services	Moreno Valley College	CIS-21 Introduction to Operating System
Moreno Valley Unified	Canyon Springs High	Design, Visual, and Media Arts	Moreno Valley College	ADM-62 Typography and Graphic Design
Moreno Valley Unified	Canyon Springs High	Design, Visual, and Media Arts	Moreno Valley College	ADM-1 Introduction to Applied Digital Media and Printing
Val Verde Unified	Citrus Hill High	Public Safety	Moreno Valley College	ADJ-1 Introduction to Administration of Justice
Val Verde Unified	Citrus Hill High	Public Safety	Moreno Valley College	ADJ-3 Concepts of Criminal Law
Val Verde Unified	Citrus Hill High	Public Safety	Moreno Valley College	ADJ-8 Juvenile Law and Procedures
Val Verde Unified	Citrus Hill High	Public Safety	Moreno Valley College	ADJ-20 Introduction to Corrections
Alvord Unified	Hillcrest High		Riverside City College	EAR-42 Child, Family and Community
Alvord Unified	Hillcrest High		Riverside City College	EAR-28 Principles and Practices of Teaching Young Children
Alvord Unified	Hillcrest High		Riverside City College	NNA-79 Medical Terminology for Healthcare Professionals
Alvord Unified	Hillcrest High		Riverside City College	NNA-80 Nursing Assistant Training Program
Jurupa Unified	Jurupa Valley High		Norco College	CIS-78A Introduction to Adobe Photoshop
Jurupa Unified	Jurupa Valley High		Norco College	CIS-79 Introduction to Adobe Illustrator
Jurupa Unified	Jurupa Valley High		Norco College	ADJ-8 Juvenile Law and Procedures
Jurupa Unified	Jurupa Valley High		Norco College	EAR-20 Child and Growth Development
Jurupa Unified	Jurupa Valley High		Riverside City College	EAR-20 Child and Growth Development
Jurupa Unified	Jurupa Valley High		Riverside City College	EAR-42 Child, Family and Community
Alvord Unified	La Sierra High		Riverside City College	EAR-42 Child, Family and Community
Alvord Unified	La Sierra High		Riverside City College	EAR-28 Principles and Practices of Teaching Young Children
Alvord Unified	La Sierra High		Riverside City College	NNA-79 Medical Terminology for Healthcare Professionals
Alvord Unified	La Sierra High		Riverside City College	NNA-80 Nursing Assistant Training Program
Alvord Unified	Norte Vista High		Riverside City College	EAR-42 Child, Family and Community
Alvord Unified	Norte Vista High		Riverside City College	EAR-28 Principles and Practices of Teaching Young Children
Alvord Unified	Norte Vista High		Riverside City College	NNA-79 Medical Terminology for Healthcare Professionals
Alvord Unified	Norte Vista High		Riverside City College	NNA-80 Nursing Assistant Training Program

Continued on next page...

K12 Organizations	High School (offering course)	High School Pathway	Community College	Community College Course ID & Title
Riverside Unified	North High		Riverside City College	EAR-20 Child and Growth Development
Jurupa Unified	Nueva Vista Continuation High		Riverside City College	EAR-42 Child, Family and Community
Jurupa Unified	Nueva Vista Continuation High		Riverside City College	EAR-42 Child, Family and Community
Val Verde Unified	Orange Vista High	Public Safety	Moreno Valley College	FIT-1 Fire Protection Organization
Val Verde Unified	Orange Vista High	Public Safety	Moreno Valley College	FIT-2 Fire Behavior and Combustion
Val Verde Unified	Orange Vista High	Public Safety	Moreno Valley College	FIT-4 Building Construction for Fire Protection
Val Verde Unified	Orange Vista High	Public Safety	Moreno Valley College	FIT-3 Fire Protection Equipment and Services
Jurupa Unified	Patriot High		Riverside City College	EAR-20 Child and Growth Development
Jurupa Unified	Patriot High		Riverside City College	EAR-20 Child and Growth Development
Jurupa Unified	Patriot High		Riverside City College	EAR-42 Child, Family and Community
Val Verde Unified	Rancho Verde High	Public Safety	Moreno Valley College	ADJ-1 Introduction to Administration of Justice
Val Verde Unified	Rancho Verde High	Public Safety	Moreno Valley College	ADJ-3 Concepts of Criminal Law
Val Verde Unified	Rancho Verde High	Public Safety	Moreno Valley College	ADJ-8 Juvenile Law and Procedures
Val Verde Unified	Rancho Verde High	Public Safety	Moreno Valley College	ADJ-20 Introduction to Corrections
Jurupa Unified	Rubidoux High		Riverside City College	EAR-20 Child and Growth Development
Jurupa Unified	Rubidoux High		Riverside City College	EAR-42 Child, Family and Community
Moreno Valley Unified	Valley View High	Information Support and Services	Moreno Valley College	CIS-1A Introduction to Computer Information Systems
Moreno Valley Unified	Valley View High	Information Support and Services	Moreno Valley College	CIS-21 Introduction to Operating System

Almost all of the courses outlined in this handbook are also available through concurrent enrollment. You can start early, so right out of high school you can start working in one of these exciting and rewarding careers as a trained professional.



# • Tuition FREE Noncredit Certificates Offered

## **ARCHITECTURE**

- Essential 3D Tour . . . . .5
- Essential Revit. . . . .5

## **AUTOMOTIVE**

- ASE Engine Performance & Electric Specialist. . . . .25
- ASE Powertrain Specialist. . . . .25
- ASE Undercar Specialist. . . . .25

## **APPLIED DIGITAL MEDIA AND PRINTING**

- Graphic Design and Promotional Printing Entrepreneurship. . . . .15

## **BAKING AND PASTRY**

- Advanced Professional Skills in Baking & Pastry Arts . . . . .105
- Intermediate Professional Skills in Baking & Pastry Arts . . . . .105
- Introduction to Professional Skills in Baking & Pastry Arts. . . . .105
- Professional Skills of Baking & Pastry Arts. . . . .106

## **BUSINESS ADMINISTRATION**

- Accounting Basics for Small Business. . . . .31
- Gig: The Solopreneurs Adventure . . . . .31
- Global Industry . . . . .31

## **COMPUTER APPLICATIONS AND OFFICE TECHNOLOGY**

- Business Information Worker Essential Preparation: Workplace Communication. . . . .41
- Business Information Worker Essential Preparation: Workplace Decision Making & Time Management 41
- Business Skills - MOSPrep - Microsoft Office Specialist . . . . .41

## **COMPUTER INFORMATION SYSTEMS**

- Business Skills Boot Camp . . . . .51
- Coding Prep . . . . .51
- Computer Maintenance and Security . . . . .51
- Data Quick Start . . . . .51
- Information Systems: Cyber Skills . . . . .51
- Internet of Things (Iot): Embedded Systems and Microcontrollers . . . . .52
- Introduction to Basic Computer and IT Careers for ESL Students . . . . .52
- Introduction to Python Programming. . . . .52
- Operating Systems and Internet Literacy. . . . .52
- Remote Work Productivity Essentials . . . . .52

## **CULINARY ARTS**

- Food Service Career & Certification Preparation .106
- Math Skills for the Professional Baker . . . . .106

## **DRAFTING TECHNOLOGY**

- Essential CAD. . . . .10
- Essential Fusion 360. . . . .10
- Essential SolidWorks. . . . .10

## **EARLY CHILDHOOD EDUCATION**

- Family Childcare Provider . . . . .61

## **ENGLISH AS A SECOND LANGUAGE**

- Beginning American College English . . . . .62
- Advanced American College English. . . . .62
- Introduction to Education Profession for ESL Students. . . . .62

## **ENTREPRENEURSHIP**

- Entrepreneurial Essentials . . . . .35
- Entrepreneurial Foundations . . . . .35
- Entrepreneurship and the Team . . . . .35
- Social Media for Business. . . . .35

## **MANUFACTURING TECHNOLOGY**

- Computerized Numerical Control Operator . . . . .101
- Industrial Automation . . . . .101

## **PROFESSIONAL DEVELOPMENT STUDIES**

- Customer Relations . . . . .37
- Emerging Leaders. . . . .37
- Enterprise Communication . . . . .37
- Financial Literacy . . . . .37
- Sales Techniques . . . . .37
- Successful Career Transition. . . . .37
- Workplace Essentials . . . . .37

# • Noncredit Frequently Asked Questions



## **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 who 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!

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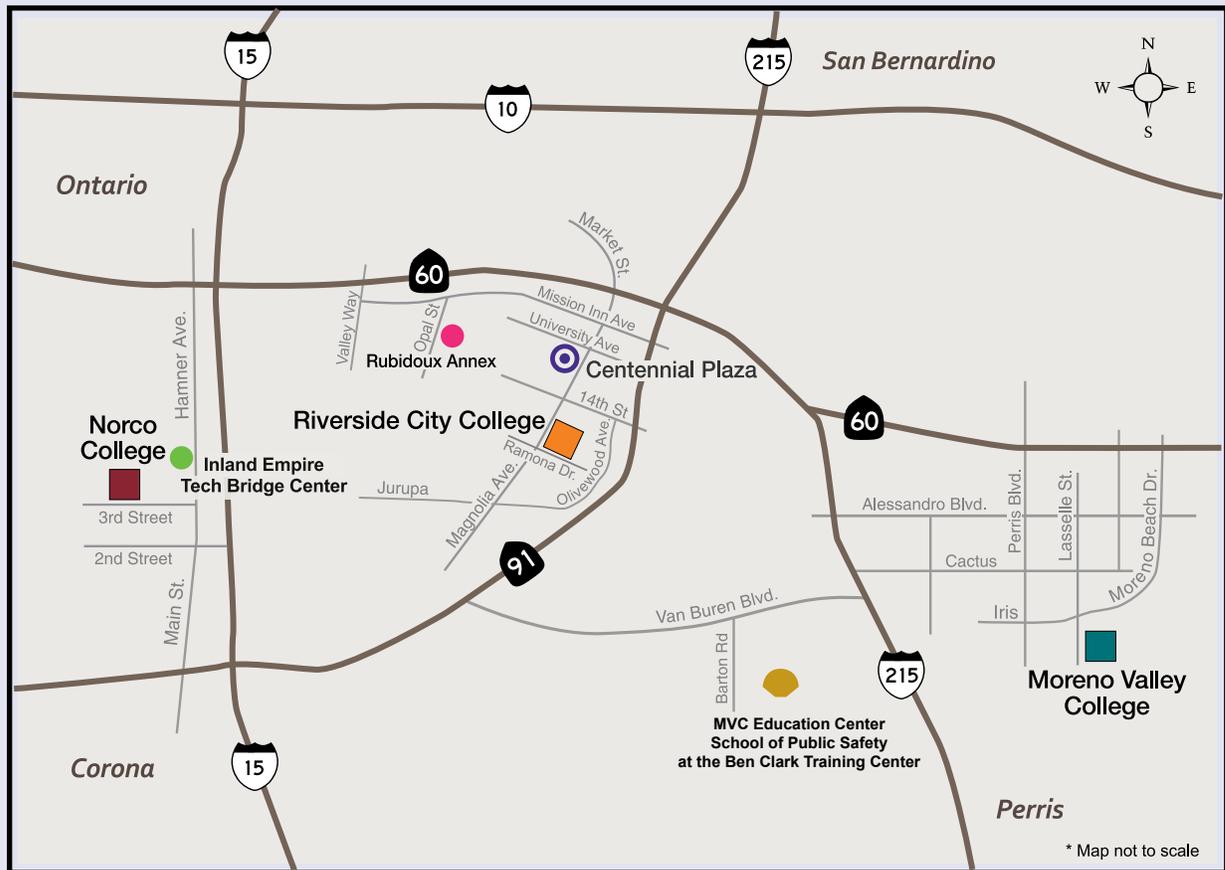
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# Riverside Community College District Locations



**Moreno Valley College**  
 16130 Lasselie Street  
 Moreno Valley, CA 92551-2045  
 (951) 571-6100  
 www.mvc.edu

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

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

**MVC Education Center  
 School of Public Safety  
 at the Ben Clark Training  
 Center**  
 20629 11<sup>th</sup> Street  
 Riverside, CA 92518  
 (951) 571-6300

**Rubidoux Annex**  
 4250 Opal Street, T11  
 Jurupa Valley, CA 92509  
 (951) 222-8641

**Opening Soon**  
 Inland Empire Tech Bridge Center  
 1860 Town and Country Drive  
 Norco, CA 92860

**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



**RCCD** | RIVERSIDE COMMUNITY  
COLLEGE DISTRICT

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