

# PROGRAMS OF STUDY

## Administration of Justice

Administration of Justice offers men and women a career of personal challenge and rewarding public service. A great need exist for intelligent, well-educated personnel with a firm commitment toward professional improvement in the justice system. Citrus College offers courses to prepare students for employment and promotion in the criminal justice system.

Please select 18 "degree appropriate" units from the courses below.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

<b>Administration of Justice</b>	<b>Units</b>
AJ 101 Introduction to the Administration of Justice	3
AJ 102 Concepts of Criminal Law	3
AJ 103 Legal Aspects of Evidence	3
AJ 105 Criminal Investigation	3
AJ 106 Patrol Procedures	3
AJ 107 Traffic Control	3
AJ 108 Juvenile Procedures	3
AJ 109 Criminal Procedures	3
AJ 111 Narcotics and Vice Control	3
AJ 112 Community Relations	3
AJ 117 Fingerprint Identification and Classification	3
AJ 118 Police Supervision	3
AJ 123 Writing for Criminal Justice Professionals	3
AJ 130 Introduction to Probation and Parole	3
AJ 131 Introduction to Corrections	3
AJ 133 Correctional Writing	3
AJ 135 Control and Supervision in Corrections	3
AJ 136 Correctional Interviewing and Counseling	3
AJ 137 Legal Aspects of Corrections	3
AJ 698A Cooperative Education	1
AJ 698B Cooperative Education	2
AJ 698C Cooperative Education	3
AJ 698D Cooperative Education	4
AJ 699A Cooperative Education	1
AJ 699B Cooperative Education	2
AJ 699C Cooperative Education	3
AJ 699D Cooperative Education	4

### Additional Acceptable Courses

PHTO 101 Basic Photography	3
SOC 203 Criminology	3

**Total Units 18**

## Automotive Technology

This program is designed to prepare students who wish to seek employment in the automotive technology industry or qualify for a more responsible position within the field.

Please select 18 "degree appropriate" units from the courses below.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

	<b>Units</b>
AUTO 100 Automotive Technology and Maintenance for the Consumer	3
AUTO 101 Fundamentals of Automotive Service, Diagnosis and Repair	5
AUTO 130 Basic Smog Technician	2
AUTO 131 Advanced Smog Technician	2
AUTO 135 Bureau of Automotive Repair (BAR) On-Board Diagnostics II	1
AUTO 140 Principles of Automotive Technology	3
AUTO 142 Drivetrain Systems	5
AUTO 144 Chassis Systems	5
AUTO 145 Automotive Service Consulting	3
AUTO 146 Automotive Electrical Systems	4
AUTO 148 Engine Control Systems	5
AUTO 151 Engine Service, Diagnosis and Repair	5
AUTO 154 Chassis Service, Diagnosis, and Repair	8
AUTO 156 Automotive Electrical/Electronic Systems I	4
AUTO 162 Drivetrain Service, Diagnosis and Repair	8
AUTO 166 Automotive Electrical/Electronic Systems II	3
AUTO 167 Automotive HVAC Service, Diagnosis & Repair	3
AUTO 168 Engine Control Systems Service, Diagnosis and Repair	8
AUTO 190 Introduction to Compressed Natural Gas Vehicles	3
AUTO 245 Automotive Service Management	3
AUTO 260 Engine Design	6
AUTO 261 Cylinder Head Rebuilding	4
AUTO 281 Advanced Toyota Certified Technician Training	7
AUTO 285 Digital Storage Oscilloscopes	1
AUTO 290 Introduction to the Automotive Aftermarket	1

	<b>Units</b>
AUTO 291 Engine Performance Enhancements and Tuning	3
AUTO 292 Advanced Drivetrain Development	2
AUTO 293 Advanced Steering, Suspension Geometry, Brake Design and Analysis	3
AUTO 294 Brake Design and Analysis	3
AUTO 295 Special Projects	2
AUTO 297 Cylinder Block Development	4
AUTO 698A Cooperative Education	1
AUTO 698B Cooperative Education	2
AUTO 698C Cooperative Education	3
AUTO 698D Cooperative Education	4
AUTO 699A Cooperative Education	1
AUTO 699B Cooperative Education	2
AUTO 699C Cooperative Education	3
AUTO 699D Cooperative Education	4

**Additional Acceptable Course Units**

BUS 170 Small Business Management	3
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**Total Units 18**

## Biological and Physical Sciences (and Mathematics)

Courses in the Biological and Physical Sciences and Mathematics examine the physical universe, its life forms, and its natural phenomena. They assist in developing an appreciation and understanding of the scientific method and encourage an understanding of the relationships between science and other human activities. This category includes introductory or integrative courses in astronomy, biology, chemistry, general physical science, geology, physics, physical geography, physical anthropology, and other scientific disciplines.

Please select 18 "degree appropriate" units from the courses below.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

### ASTRONOMY

ASTR 115 Planetary Astronomy	3
ASTR 115H Honors Planetary Astronomy	3
ASTR 116 Stellar Astronomy	4
ASTR 117 Life in the Universe	3

### BIOLOGY

BIOL 100 Introductory Biology	3
BIOL 102 Genetics	3
BIOL 104 Biology: Contemporary Topics	3

	<b>Units</b>
BIOL 105 General Biology	4
BIOL 109 Biology for Educators	4
BIOL 116 HIV and AIDS: Insights and Implications	3
BIOL 124 Principles of Biology I	5
BIOL 125 Principles of Biology II	5
BIOL 145 Environmental Science	3
BIOL 200 Human Anatomy	4
BIOL 201 Human Physiology	4
BIOL 210 Nutrition	3
BIOL 220 Microbiology	5

### CHEMISTRY

CHEM 103 College Chemistry	5
CHEM 104 College Chemistry	5
CHEM 106 Chemistry and Physics for Educators	4
CHEM 110 Beginning General Chemistry	5
CHEM 111 General Chemistry	5
CHEM 112 General Chemistry	5
CHEM 210 Organic Chemistry	3
CHEM 211L Organic Chemistry Laboratory	1
CHEM 220 Organic Chemistry	3
CHEM 221L Organic Chemistry Laboratory	1

### COMPUTER SCIENCE & INFORMATION SYSTEMS

CSIS 105 Introduction to Windows and Personal Computers	2
CSIS 107 Fundamentals of Information Technology	4
CSIS 111 Introduction to Programming Concepts and Design	4
CSIS 119 Introduction to Web Programming	3
CSIS 130 Microcomputer Applications I	4
CSIS 140 Java Programming	4
CSIS 150 Web Development with Dreamweaver	
CSIS 151 Web Development with Dreamweaver II	2
CSIS 154 Web Development with Fireworks	2
CSIS 156 Web Development with Flash	2
CSIS 162 Electronic Spreadsheets Using Microsoft Excel	3
CSIS 166 Introduction of PowerPoint	2
CSIS 167 Introduction to MS Publisher	2
CSIS 168 Using Web Page Software	4
CSIS 175 Introduction to Access	2
CSIS 181 Introduction to Microsoft Project Management	2
CSIS 190 Introduction to Flash Game Programming	4
CSIS 225 Object Oriented Programming with C++	4
CSIS 230 Microcomputer Applications II	4

<b>ENGINEERING</b>		<b>Units</b>
ENGR 100	Principles of Technology	3
ENGR 104	PC Hardware and Maintenance	4
ENGR 107	Network Technology	4
ENGR 108	Networking Operating Systems	4
ENGR 109	Network and Computer Security	4
ENGR 122	Engineering Drawing	3
ENGR 125	Introduction to Engineering CAD	2
ENGR 130	Engineering Graphics	3

<b>FORESTRY</b>		<b>Units</b>
FOR 101	Introduction to Forestry	3
FOR 102	Introduction to Forest Ecology	3
FOR 103	Plant Identification	3
FOR 104	Introduction to Outdoor Recreation	3
FOR 105	Wildland Fire Management	3
FOR 106	Principles of Wildlife Management and Ecology	3

<b>EARTH SCIENCE</b>		<b>Units</b>
ESCI 111	Earth and Space Science for Educators	4
ESCI 118	Physical Geography	3
ESCI 120	Physical Geology	4
ESCI 121	Historical Geology	4
ESCI 122	Geology: Earth History	3
ESCI 124	Environmental Geology	3
ESCI 125	California Geology	4
ESCI 140	The Geology of Death Valley National Park	2
ESCI 141	The Geology of Yosemite National Park	2
ESCI 142	The Geology of Channel Islands National Park	2
ESCI 143	The Geology of Joshua Tree National Park	2
ESCI 145	The Geology of Sequoia National Park	2
ESCI 180	Introduction to Geographic Information Systems	3

<b>MATHEMATICS</b>		<b>Units</b>
MATH 148	Intermediate Algebra I	2.5
MATH 149	Intermediate Algebra II	2.5
MATH 150	Intermediate Algebra	5
MATH 151	Plane Trigonometry	4
MATH 160	Survey of Mathematics	3
MATH 162	Introductory Mathematical Analysis	4
MATH 165	Introductory Statistics	4
MATH 165H	Introductory Statistics (Honors)	4
MATH 168	Mathematics for Elementary Teachers I	3
MATH 169	Mathematics for Elementary Teachers II	3
MATH 170	College Algebra	3
MATH 175	Pre-Calculus	4
MATH 190	Calculus with Analytic Geometry I	4
MATH 191	Calculus with Analytic Geometry II	4
MATH 210	Calculus with Analytic Geometry III	4
MATH 211	Differential Equations	4
MATH 212	Introduction to Linear Algebra	4

<b>OCEANOGRAPHY</b>		<b>Units</b>
ESCI 130	Physical Oceanography	3

<b>PHYSICS</b>		<b>Units</b>
PHYS 105	Physical Science	3
PHYS 106	Chemistry and Physics for Educators	4
PHYS 110	Introduction to College Physics	4
PHYS 111	General Physics	4
PHYS 112	General Physics	4
PHYS 201	Physics	5
PHYS 202	Physics	5
PHYS 203	Physics	5

<b>ADDITIONAL ACCEPTABLE COURSE (UNDER A.S. NATURAL SCIENCES)</b>		<b>Units</b>
PHIL 110	Philosophy/Logic	3
<b>Total Units 18</b>		

### \*Biological Sciences

The associate degree in biological science prepares students for pre-professional careers and a curriculum in a four-year institution leading to a baccalaureate degree in such areas as microbiology, organismal biology, cell and molecular biology, and teaching. The biologist is also prepared to enter graduate or professional programs of specialized study such as medicine, dentistry, medical technology, osteopathy, veterinary medicine, agriculture, forestry, optometry, and dental hygiene.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

<b>REQUIRED COURSES:</b>		<b>Units</b>
BIOL 124	Principles of Biology I	5
BIOL 125	Principles of Biology II	5
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
MATH 190	Calculus with Analytic Geometry I	4
MATH 165	Introductory Statistics	4
<b>or</b>		
MATH 191	Calculus with Analytic Geometry II	4
<b>Total Units 28</b>		

\*Pending chancellor's office approval

## Business

The Business Program encompasses a broad area of study that includes business management, business law, marketing, business ethics, personal finance and business communication skills. The Business Program within the Citrus College Business Department conducts the program with outstanding faculty to prepare students to transfer to four-year institutions, for professional careers and/or personal growth. The program combines classroom lectures, demonstrations and practical application within the business environment.

**Please select 18 "degree appropriate" units from the courses below.**

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

### ACCOUNTING

	<b>Units</b>
ACCT 100 Accounting	3
ACCT 101 Financial Accounting	4
ACCT 101H Financial Accounting - Honors	4
ACCT 102 Managerial Accounting	4
ACCT 110 Income Tax Accounting	4
ACCT 115 QuickBooks	2

### BUSINESS

BUS 130 Introduction to Business	3
BUS 132 Ethics in Business	3
BUS 140 International Business	3
BUS 146 Personal Finance	3
BUS 150 Business English	3
BUS 152 Business Communications	3
BUS 160 Business Law and the Legal Environment I	3
BUS 161 Business Law and the Legal Environment II	3
BUS 170 Small Business Management	3
BUS 172 Personnel Management	3
BUS 175 Introduction to Management	3
BUS 176 Management for the Office Professional	3
BUS 185 Elements of Marketing	3
BUS 192 Advertising	3
BUS 246 Personal Investments	3

### COMPUTER SCIENCE AND INFORMATION SYSTEMS

CSIS 105 Introduction to Windows and Personal Computers	2
CSIS 107 Fundamentals of Information Technology	4
CSIS 111 Introduction to Programming Concepts and Design	4

	<b>Units</b>
CSIS 119 Introduction to Web Programming	3
CSIS 130 Microcomputer Applications I	4
CSIS 140 Java Programming	4
CSIS 150 Web Development with Dreamweaver	3
CSIS 151 Web Development with Dreamweaver II	2
CSIS 156 Web Development with Flash	2
CSIS 162 Electronic Spreadsheets Using Microsoft Excel	3
CSIS 166 Introduction of PowerPoint	2
CSIS 167 Introduction to MS Publisher	2
CSIS 168 Using Web Page Software	4
CSIS 175 Database Management & Design	4
CSIS 181 Introduction to Microsoft Project Management	2
CSIS 190 Introduction to Flash Game Programming	4
CSIS 225 Object Oriented Programming with C++	4
CSIS 230 Microcomputer Applications II	4

### OFFICE OCCUPATIONS

OFF 101 Introduction to Microsoft Office Applications	3
OFF 120 Excel Spreadsheet	2
OFF 154 Professional Development – Interpersonal Skills	1
OFF 155 Professional Development Series – Business Etiquette and Protocol	1
OFF 156 Professional Development Series: Team Dynamics	1
OFF 157 Professional Development Series: Customer Relations and Rapport	1
OFF 158 Professional Development Series: Leadership in Organizations	1
OFF 159 Professional Development Series: Career Planning and Networking	1
OFF 160 Professional Development Series: Professional Image	1
OFF 161 Professional Development Series: Interview Styles & Strategies	1
OFF 201 Introduction to Electronic Commerce for Business	2
OFF 215 Introduction to Microsoft Outlook	2
OFF 260 Computer Keyboarding and Document Processing	3
OFF 281 Filing and Records Management	3
OFF 285 Administrative Office Procedures	3
OFF 291 Telecommunications for the Office	2
OFF 294 Beginning Microsoft Word	2

### REAL ESTATE

REAL 210 Real Estate Principles	3
REAL 212 Real Estate Practice	3
REAL 214 Real Estate Finance	3
REAL 216 Legal Aspects of Estate Practice	3

	<b>Units</b>
<b>ADDITIONAL ACCEPTABLE COURSES</b>	
ECON 101 Principles of Economics	3
ECON 102 Principles of Economics	3
MATH 162 Introductory Mathematical Analysis	4
MATH 165 Introductory Statistics	4
<b>Total Units 18</b>	

### \*Child Development

The curriculum leads to an associate in arts degree and meets the educational requirements for employment as a teacher or assistant teacher in preschools and children's centers.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

#### Category A

##### Three Units of Child Development

Select ONE of the following

CHLD 110 Early Childhood Development	3
<b>or</b>	
PSY 206 Child Growth and Development	3

#### Category B

##### Required Major Courses:

CHLD 112 Principles of Early Childhood Education I	3
CHLD 114 Home-Child-Community Relations	3
CHLD 116 Introduction to Curriculum	3
CHLD 144 Health, Safety and Nutrition for Young Children	3
CHLD 150 Multi-Culture Anti-Bias Classrooms	3
CHLD 154 Observing and Recording Behavior	3

#### Category C

##### Practicum (Fieldwork) Course & Lab

Select one of the following practicum and lab courses

CHLD 156 Practicum A in Early Childhood Education	2
<b>and</b>	
CHLD 156L Practicum A Lab	1
<b>or</b>	
CHLD 158 Practicum B in Early Childhood Education	2
<b>and</b>	
CHLD 158L Practicum B Lab	1

*Note: In order to obtain a permit from the State, 175 hours of verifiable experience working with young children is also required.*

**Total Units 18**

## Cosmetology

Upon successful completion of 1600 clock hours of applied preparation in lecture and lab experience in Cosmetology 140, 152, 153, 154, 155, 156, 157, 158, 159, 163, and 164, the student will be issued 57 units of credit and will be eligible to take the State Board of Cosmetology examination to become a licensed cosmetologist.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

<b>REQUIRED COURSEWORK:</b>		<b>Units</b>
COS 140	Introduction to Cosmetology	12
COS 152	Beginning Chemical Reformation of the Hair	4.5
COS 153	Advanced Chemical Reformation of the Hair	4.5
COS 154	Beginning Haircoloring	4.5
COS 155	Advanced Haircoloring	4.5
COS 156	Beginning Manicuring	4.5
COS 157	Advanced Manicuring	4.5
COS 158	Beginning Physical Restructuring of the Hair	4.5
COS 159	Advanced Physical Restructuring of the Hair	4.5
COS 163	Beginning Facial Treatment, Skin Care and Make-up	4.5
COS 164	Advanced Facial Treatments, Skin Care, and Make-up	4.5
<b>Total Units 57</b>		

### \*Dance

A foundational dance background, encompassing a strong emphasis in various dance techniques as well as history, basic kinesiology and performance practicum.

Note that all courses listed must be successfully completed.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

#### Dance Technique

DANC 103	Introduction to Dance	1
DANC 159	Beginning Tap	1
DANC 160	Beginning Jazz Dance	1
DANC 161	Beginning Modern Dance	1
DANC 162	Beginning Ballet	1
DANC 259	Intermediate Tap I	1

\*Pending chancellor's office approval

		<b>Units</b>
DANC 260	Intermediate Jazz Dance I	1
DANC 262	Intermediate Ballet I	1
DANC 270	Intermediate Jazz Dance II	1
DANC 272	Intermediate Ballet II	1

### Dance History

DANC 102	History of Dance	3
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### Kinesiology

DANC 130	Alignment and Correctives	2
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### Performance Practicum

DANC 289	Dance Concert Production	3
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**Total Units 18**

\*Pending chancellor's office approval

## Dental Assisting

The Dental Assisting Program prepares students for the California State Registered Dental Assistant Examination. This program is accredited by the American Dental Association Commission on Accreditation and the California State Board of Dental Examiners. Upon completion, the graduate is eligible to sit for the California State Registered Dental Assistant Examination and the National Certification Examination.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

### REQUIRED COURSEWORK

DENT 100	Dental Assisting Basics	2.5
DENT 101	Chairside Assisting	3
DENT 102	Dental Materials	2.5
DENT 121	Preclinical Dental Science	2
DENT 122	Infection Control in the Dental Office	1.5
DENT 123	Preventive Dental Health	2
DENT 124	Dental Specialties	2
DENT 125	Dental Practice Management	2
DENT 201	Dental Radiology	2
DENT 202	Registered Dental Assistant	4
DENT 203	Dental Practical Experience	5.5
DENT 204	RDA Clinical Procedures	1

**Total Units 30**

## Drafting Technology

Drafting includes such majors as electronics, engineering and architecture. Architectural courses, lighting design courses and mechanical drafting courses are offered in alignment with the transfer program

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

**Please select 18 "degree appropriate" units from the courses below:**

	<b>Units</b>	
DRAF 149	Introduction to Architectural Computer Generated Imagery and Design Technology	1
DRAF 150	Introduction to Architecture	3
DRAF 151	Basic Residential Floor Plans and Functional Design	3
DRAF 152	Basic Residential Structure Design and Drafting	3
DRAF 153	Advanced Residential Detailing and Design	3
DRAF 154	Commercial and Industrial Buildings	3
DRAF 158	Perspective	2
DRAF 160	Introduction to Architectural CAD	2
DRAF 161	Residential CAD	2
DRAF 189	History and Theory of Design	3
DRAF 190	Computer Imaging Practices for Industry and Architecture	3
DRAF 290	Learning Maya Introduction	3
DRAF 291	Learning Maya Transitions	3
DRAF 292	Character Animation in Maya 4.5	3
DRAF 293	Maya 4.5 Dynamics	3
DRAF 294	Maya Rendering 4.5	3
DRAF 295	Introduction to Maya Embedded Language (MEL)	3
DRAF 296	Maya/Accelerator	3
DRAF 297	Maya Cloth	3
DRAF 101	Mechanical Drawing	3
DRAF 102	Technical Illustration	2.5
DRAF 103	Advanced Mechanical Drawing	3
DRAF 109	Intermediate Computer Aided Drafting (CAD)	2.5
DRAF 111	Computer Aided Design and Drafting Mechanical (CADD)	2
DRAF 112	Introduction to Computer Aided Design (CAD) and Mechanical Drawing	3
DRAF 198	Special Problems in Drafting	1
DRAF 698A	Cooperative Education	1
DRAF 698B	Cooperative Education	2
DRAF 698C	Cooperative Education	3
DRAF 698D	Cooperative Education	4
DRAF 699A	Cooperative Education	1

DRAF 699B	Cooperative Education	Units	2
<b>Additional acceptable course</b>			
ART 111	Beginning Drawing		3
ART 120	Two-Dimensional Design		3
ART 121	Three-Dimensional Design		3
MATH 150	Intermediate Algebra		5
MATH 151	Plane Trigonometry		4
PHYS 110	Introduction to College Physics		4
			<b>Total Units 18</b>

## Digital Design

This program prepares students for employment in digital design careers. The integration of traditional art/design and digital media prepares students for employment opportunities in the areas of advertising, multi-media and marketing graphics. This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of "C" and above) of the following major requirements:

### REQUIRED COURSES:

ART111	Beginning Drawing	3
ART120	Two-Dimensional Design	3
ART150	Computer Art Basics	3
ART162	Computer Graphics I	3
ART167	World Wide Web Design I	3
ART188	Multimedia Portfolio and Resume Production	3

Electives. Select 6 units of the following:

ART153	Digital Media Production I	3
ART157	Digital Color File Manipulation	3
ART158	Commercial Graphic Design	3
ART163	Computer Graphics II	3
ART167	World Wide Web Design I	3
ART168	Animation I	3
ART253	Digital Media Production II	3
ART267	World Wide Web Design II	3
ART268	Animation II	3
DRAF189	History and Theory of Design	3
DRAF190	Computer Imaging Practices for Industry and Architecture	3
PHTO101	Basic Photography	3
PHTO102	Intermediate Photography	3
PHTO215	Electronic Photo Imaging	3

**Total Units 24**

## Emergency Management and Homeland Security

The Associate of Science degree program will provide both students and currently working emergency managers the required courses and learning domains to apply for employment with emergency management agencies, such as the local cities and county governments in California and non-profit organizations such as the American Red Cross, and federal agencies such as the Department of Homeland Security (FEMA). Additionally, those currently working in the field will have a recognized degree.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

### REQUIRED COURSES:

	Units
EMER 162 Principles of Emergency Management	3
EMER 163 Terrorism and Emergency Management	3
EMER 164 Managing Hazardous Materials Incidents	3
EMER 166 Emergency Planning and Methodology	3
EMER 167 Practical Applications of Emergency Management	3

### Plus a minimum of 6 units selected from the following:

EMER 168 Emergency Operations Center (EOC) Management	3
ESCI 180 Introduction to Geographic Information Systems	3
HEAL 161 Emergency Medical Technician - Basic	7

**Total Units 21**

## \*Energy Systems Technology

This degree program prepares students to work in a variety of building energy system professions. Core classes are taken by all students and pathways are designed to create mastery in specialty fields. Careers include design, installation, and maintenance of building systems.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

### Complete all of the following Energy System Technology core courses: Units

EST 101	Introduction to Building Systems	1
EST 150	Green Building Systems Technology	3
ENGR 100	Principles of Technology	3
BUS 152	Business Communications	3
HEAT 170	Air Conditioning I	2
DRAF 699D	Cooperative Education	1 - 4

### Building Systems Design Technician Emphasis

DRAF 154	Commercial and Industrial Buildings	3
PUB 164	Plan Interpretation and Cost Estimating	3
DRAF 112	Introduction to Computer Aided Design (CAD) and Mechanical Drawing	3
ENGR 125	Introduction to Engineering CAD	2
ELEC 101	Electronics Fundamentals	4

**OR**

### Building Systems Maintenance & Operations Technician Emphasis.

HEAT 184	Electricity for Heating and Air Conditioning	2
HEAT 186	Control Systems	2
HEAT 188	Trouble Shooting Heating and Air Conditioning	2
ELEC 101	Electronics Fundamentals	4

**OR**

ELEC 102	Electronics Communications	4
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**Total Units 23-31**

\*Pending chancellor's office approval

## Fine and Performing Arts

The fine and performing arts curriculum offers instruction in theory, practice and history. These three areas of study provide the foundation needed to begin a career in commercial or fine and performing arts. The foundation courses meet prerequisite requirements to UC, CSU systems and four-year art schools.

## Select 18 "degree appropriate" units from the courses below.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

<b>ART</b>		<b>Units</b>
ART 100	Art History and Appreciation - Fundamentals	3
ART 101	Art History and Appreciation - Ancient	3
ART 102	Art History and Appreciation - Medieval	3
ART 103	Art History and Appreciation - Renaissance to Rococo	3
ART 104	Art History and Appreciation-19th Century Art	3
ART 105	Art History and Appreciation - Early 20th Century Art	3
ART 106	Art History and Appreciation - Pre-Columbian	3
ART 110	Introduction to the Visual Arts	3
ART 111	Beginning Drawing	3
ART 112	Intermediate Drawing	3
ART 113	Drawing for Spatial Manipulation	3
ART 115	Figure Drawing I	3
ART 116	Figure Drawing II	3
ART 120	Two-Dimensional Design	3
ART 121	Three-Dimensional Design	3
ART 122	Color Theory and Composition	3
ART 125	Interior Design I	2
ART 126	Interior Design II	2
ART 130	Beginning Painting	3
ART 131	Intermediate Painting	3
ART 140	Beginning Ceramics	3
ART 141	Intermediate Ceramics	3
ART 142	Experimental Ceramics	3
ART 143	Ceramic Handbuilding	3
ART 145	Ceramic Design and Decoration	3
ART 149	Studio Problems in Ceramics	1
ART 150	Computer Art Basics	3
ART 153	Digital Media Production I	3
ART 157	Digital Color File Manipulation	3
ART 158	Commercial Graphic Design	3
ART 162	Computer Graphics I	3
ART 163	Computer Graphics II	3
ART 167	World Wide Web Design I	3



		<b>Units</b>
MUS 112	Music Fundamentals	3
MUS 113	History of Rock & Roll	3
MUS 114	Music Appreciation	3
MUS 160	Popular Piano Styles	2
MUS 162	Songwriting	2
MUS 170	Sight Reading for the Studio	3
MUS 200	Musicianship	2
MUS 201	Musicianship	2
MUS 202	Harmony	3
MUS 203	Harmony	3
MUS 218	History of Jazz	3
MUS 225	Introduction to American Music	3

### **Instrumental Courses**

MUS 105	Elementary Piano I	2
MUS 106	Elementary Piano II	2
MUS 107	Jazz Ensemble	4
MUS 108	Woodwind Techniques	1
MUS 109	Brass and Percussion Techniques	1
MUS 122	Beginning Guitar I	2
MUS 123	Beginning Guitar II	2
MUS 124	Intermediate Guitar	2
MUS 125	Intermediate Guitar	2
MUS 130	Guitar Ensemble	2
MUS 137	Standard Percussion Instrumentation/Techniques	1
MUS 138	World Percussion Instrumentation/Techniques	1
MUS 152	Jazz Combos	1
MUS 153	Chamber Jazz	4
MUS 154	Jazz Improvisation	3
MUS 155	The Professional Pianist	2
MUS 157	Percussion Ensemble I	1
MUS 158	World Percussion Ensemble I	1
MUS 161	Keyboard Skills for the Music Major	3

### **THEATER ARTS - DRAMA**

THEA 101	Introduction to Theatre Arts	3
THEA 104	Voice and Movement for the Actor	3
THEA 120	Introduction to Technical Theatre	3
THEA 125	Technical Production Laboratory	2
THEA 130	Introduction to Theatrical Scenery	3
THEA 140	Introduction to Stage Lighting	3
THEA 150	Introduction to Intelligent Lighting Systems for Theatre	3
THEA 160	Computer Aided Design for Theatre	4
THEA 200	Script Analysis - The Art of the Theatre	3
THEA 201	Acting Fundamentals I	3
THEA 202	Acting Fundamentals II	3
THEA 204	Stage and Screenwriting	3
THEA 210	Rehearsal and Performance	2
THEA 211	Acting for the Camera	3
THEA 220	Rehearsal and Performance II	3
THEA 241	Fundamentals of Stage Direction	3

		<b>Units</b>
THEA 245	Stage Management	3
THEA 250	Theatre Appreciation	3
THEA 260	Introduction to Show Production Systems	3
THEA 284	Acting Shakespeare	3
THEA 290	Citrus Theatre Company	3
THEA 292	Special Techniques in Acting	3
THEA 293	Theatre for Young Audiences	3
THEA 294	Shakespeare in Production	3
THEA 698A	Cooperative Education	1
THEA 698B	Cooperative Education	2
THEA 698C	Cooperative Education	3
THEA 698D	Cooperative Education	4
THEA 699A	Cooperative Education	1
THEA 699B	Cooperative Education	2
THEA 699C	Cooperative Education	3
THEA 699D	Cooperative Education	4

### **Additional Acceptable Courses**

Philosophy		
PHIL 101	Great Religions of the World	3
PHIL 106	Introduction to Philosophy	3
PHIL 108	Philosophy/Ethics	3

English		
ENGL 294	Introduction to Shakespeare	3

Humanities		
HUM 101	Humanities	3
HUM 102	Humanities	3
HUM 110	Humanities in the 20th Century	3
HUM 111	Humanities through the Arts	3

**Total Units 18**

## **Language Arts**

Courses in language arts develop the principles and applications of language toward logical thought, clear and precise expression and critical evaluation of communication in whatever symbol system the student uses.

**Please select 18 "degree appropriate" units from the courses below.**

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

<b>COMMUNICATION</b>		<b>Units</b>	<b>SPANISH</b>		
COMM 100	Mass Media and Society	3	SPAN 101	Spanish I	5
COMM 101	Reporting and Writing News	3	SPAN 102	Spanish II	5
COMM 103	Freelance Journalism	1	SPAN 140	Beginning Conversational Spanish	3
COMM 104	Public Relations	3	SPAN 141	Intermediate Conversational Spanish	3
COMM 136	Cultural History of American Films	3	SPAN 150	Spanish for Public Service Personnel	3
COMM 200	Visual Communications	3	SPAN 201	Spanish III	5
COMM 202	Writing Broadcast News	3	SPAN 202	Spanish IV	5
COMM 230	Desktop Publishing	3	SPAN 210	Intermediate Spanish for Speakers of Spanish	5
COMM 240	Newspaper Production Staff	3	SPAN 211	Reading and Composition for Speakers of Spanish II	5
COMM 245	Editorial Board Workshop	2			
COMM 280	Magazine Production Staff	3			
<b>ENGLISH</b>			<b>SPEECH</b>		
ENGL 101	Reading and Composition	3	SPCH 100	Interpersonal Communication	3
ENGL 101H	Reading and Composition (Honors)	3	SPCH 101	Public Address	3
ENGL 102	Reading and Composition	3	SPCH 101H	Public Address (Honors)	3
ENGL 103	Composition and Critical Thinking	3	SPCH 103	Argumentation and Debate	3
ENGL 104	Advanced Rhetoric: The Classical Essay	3	SPCH 106	Small Group Communication	3
ENGL 110	Introduction to Technical Writing	3	SPCH 210	Forensics	3
ENGL 210	Creative Writing I	3	LIBT 102	Information Sources and Research Methods	3
ENGL 211	Creative Writing II	3			
ENGL 213	Horror Literature	3			
ENGL 251	Introduction to English Literature I	3			
ENGL 252	Introduction to English Literature II	3			
ENGL 261	Introduction to U.S. American Literature I	3			
ENGL 262	Introduction to U.S. American Literature II	3			
ENGL 271	Introduction to World Literature: Ancient Medieval	3			
ENGL 272	Introduction to World Literature: Renaissance Through Modern	3			
ENGL 291	Film as Literature	3			
ENGL 291H	Honors Film as Literature	3			
ENGL 293	Children's Literature	3			
ENGL 293H	Honors Children's Literature	3			
ENGL 294	Introduction to Shakespeare	3			
ENGL 296	Introduction to Folklore	3			
ENGL 298	Literature of the Bible	3			
<b>FRENCH</b>					
FREN 101	French I	5			
FREN 102	French II	5			
FREN 201	French III	4			
FREN 202	French IV	4			
<b>GERMAN</b>					
GER 101	German I	5			
GER 102	German II	5			
GER 201	German III	4			
GER 202	German IV	4			
				<b>Total Units 18</b>	
			<b>Additional Acceptable Courses for an AA in Language Arts</b>		
			CHIN 101	Chinese I	5
			CHIN 102	Chinese II	5
			HUM 101	Humanities	3
			HUM 102	Humanities	3
			HUM 110	Humanities in the 20th Century	3
			HUM 111	Humanities through the Arts	3
			JPN 101	Japanese I	5
			JPN 102	Japanese II	5

## \*Liberal Arts With Areas of Emphasis

The associate degree in Liberal Arts is designed for students who wish a broad knowledge of liberal arts and sciences plus additional coursework in an "Area of Emphasis". This area of emphasis would be an ideal choice for students planning on transferring to the California State University or University of California as the student can satisfy their general education requirements, plus focus on transferable course work that relates to majors at CSU or UC. Please consult with a counselor for specific information regarding your intended major at the specific colleges/universality of your choice.

This program is intended for students who are planning to transfer to a 4-year university. Students are required to complete the general education requirements listed on the IGETC or CSU Breadth advising forms, along with a minimum of 18 units in one area of emphasis.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

### Emphasis in Math and Science

These courses emphasize the natural sciences, which examine the physical universe, its life forms and its natural phenomena. Courses in math emphasize the development of mathematical and quantitative reasoning skills beyond the level of intermediate algebra. Students will be able to demonstrate an understanding of the methodologies of science as investigative tools. Students will also examine the influence that the acquisition of scientific knowledge has on human experience. This emphasis includes lower-division coursework that prepares students for majors in science and engineering, math and health related fields.

Choose at least one course from each category (A& B) and then complete additional courses in categories A, or B to total 18 units.

<b>A. Science</b>	<b>Units</b>
ANTH 212 Introduction to Physical Anthropology	3
ANTH 212L Introduction to Physical Anthropology Lab	1
ASTR 115 Planetary Astronomy	3
<b>or</b>	
ASTR 115H Honors Planetary Astronomy	3
ASTR 116 Stellar Astronomy	4
ASTR 117 Life In The Universe	3
BIOL 104 Biology: Contemporary Topics	3

BIOL 105	General Biology	4
BIOL 109	Biology for Educators	4
BIOL 124	Principles of Biology I	5
BIOL 125	Principles of Biology II	5
BIOL 145	Environmental Science	3
BIOL 200	Human Anatomy	4
BIOL 201	Human Physiology	4
BIOL 220	Microbiology	5
CHEM 103	College Chemistry	5
CHEM 104	College Chemistry	5
CHEM 106	Chemistry and Physics for Educators	4
CHEM 110	Beginning General Chemistry	5
CHEM 112	General Chemistry	5
CHEM 210	Organic Chemistry	3
CHEM 211	Organic Chemistry Laboratory	1
CHEM 220	Organic Chemistry	3
CHEM 221L	Organic Chemistry Laboratory	1
ESCI 111	Earth and Space Science for Educators	4
ESCI 118	Physical Geography	3
ESCI 120	Physical Geology	4
ESCI 121	Historical Geology	4
ESCI 122	Geology: Earth History	3
ESCI 124	Environmental Geology	3
ESCI 130	Physical Oceanography	3
PHYS 105	Physical Science	3
PHYS 106	Physical Science for Educators	4
PHYS 110	Introduction to College Physics	4
PHYS 111	General Physics	4
PHYS 112	General Physics	4
PHYS 201	Physics	5
PHYS 202	Physics	5

### B) Mathematics (Grade of C or better required).

MATH 151	Plane Trigonometry	4
MATH 160	Survey of Mathematics	3
MATH 162	Introductory Mathematical Analysis	4
MATH 165	Introductory Statistics	4
<b>or</b>		
MATH 165H	Introductory Statistics	4
MATH 169	Mathematics for Elementary Teachers II	3
MATH 170	College Algebra	3
MATH 175	Pre-Calculus	4
MATH 190	Calculus with Analytic Geometry I	4
MATH 191	Calculus with Analytic Geometry II	4
MATH 210	Calculus with Analytic Geometry III	4
MATH 211	Differential Equations	4
MATH 212	Introduction to Linear Algebra	4

\*Pending chancellor's office approval

## Emphasis in Arts, Humanities and Communication

These courses emphasize the study of cultural, literary, humanistic activities and artistic expression of human beings. Students will evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and the world around them in artistic and cultural creation. Students will also learn to value aesthetic understanding and incorporate these concepts when constructing value judgments. This emphasis includes lower division coursework that prepares students for possible majors in the areas of fine arts, foreign languages, literature, and philosophy. Choose at least one course from each category (A and B) and then complete additional courses in categories A or B to total 18 units.

<b>A. Arts</b>		<b>Units</b>
ART 100	Art History and Appreciation - Fundamentals	3
ART 101	Art History and Appreciation - Ancient	3
ART 102	Art History and Appreciation - Medieval	3
ART 103	Art History and Appreciation - Renaissance to Rococo	3
ART 104	Art History and Appreciation-19th Century Art	3
ART 105	Art History and Appreciation - Early 20th Century Art	3
ART 106	Art History and Appreciation - Pre-Columbian	3
ART 110	Introduction to the Visual Arts	3
ART 111	Beginning Drawing	3
ART 112	Intermediate Drawing	3
ART 120	Two-Dimensional Design	3
ART 121	Three-Dimensional Design	3
ART 130	Beginning Painting	3
ART 140	Beginning Ceramics	3
ART 199	Motion Picture Appreciation	3
ART 200	History of Motion Pictures	3
ART 201	History of Motion Pictures	3
ART 206	History of Latin American Art	3
ART 207	History of Asian Art – China, Korea, and Japan	3
COMM 100	Mass Media and Society	3
COMM 136	Cultural History of American Films	3
DANC 102	History of Dance	3
DANC 103	Introduction to Dance	1
DANC 130	Alignment and Correctives	2
DANC 159	Beginning Tap	1
DANC 160	Beginning Jazz Dance	1
DANC 161	Beginning Modern Dance	1
DANC 162	Beginning Ballet	1
DANC 259	Intermediate Tap I	1
DANC 260	Intermediate Jazz Dance I	1
DANC 261	Intermediate Modern Dance I	1
DANC 262	Intermediate Ballet I	1

		<b>Units</b>
DANC 289	Dance Concert Production	3
MUS 105	Elementary Piano I	2
MUS 110	History of Music I	3
MUS 111	History of Music II	3
MUS 102	Harmony	3
MUS 114	Music Appreciation	3
MUS 200	Musicianship	2
MUS 201	Musicianship	2
MUS 202	Harmony	3
MUS 203	Harmony	3
MUS 218	History of Jazz	3
MUS 225	Introduction to American Music	3
MUS 290	Applied Music	2
MUS 291	Applied Music / Individual Instruction (Classical)	2
PHTO 101	Basic Photography	3
THEA 101	Introduction to Theatre Arts	3
THEA 120	Introduction to Technical Theatre	3
THEA 125	Technical Production Laboratory	2
THEA 200	Script Analysis - The Art of the Theatre	3
THEA 201	Acting Fundamentals I	3
THEA 202	Acting Fundamentals II	3
<b>B. Humanities</b>		
COMM 200	Visual Communications	3
ENGL 102	Reading and Composition	3
ENGL 210	Creative Writing I	3
ENGL 213	Horror Literature	3
ENGL 251	Introduction to English Literature I	3
ENGL 252	Introduction to English Literature II	3
ENGL 261	Introduction to U.S. American Literature I	3
ENGL 262	Introduction to U.S. American Literature II	3
ENGL 271	Introduction to World Literature: Ancient Medieval	3
ENGL 272	Introduction to World Literature: Renaissance Through Modern	3
ENGL 291	Film as Literature	3
<b>or</b>		
ENGL 291H	Film as Literature (Honors)	3
ENGL 293	Children's Literature	3
<b>or</b>		
ENGL 293H	Children's Literature (Honors)	3
ENGL 294	Introduction to Shakespeare	3
ENGL 296	Introduction to Folklore	3
HIST 140	History of the American West	3
HUM 101	Humanities	3
<b>or</b>		
HUM 101H	Humanities	3
HUM 102	Humanities	3
HUM 110	Humanities in the 20th Century	3
HUM 111	Humanities through the Arts	3

	<b>Units</b>		<b>Units</b>
JPN 101	5	HIST 103H	3
JPN 102	5	HIST 104	3
PHIL 101	3	HIST 105	3
PHIL 106	3	HIST 106	3
		HIST 107	3
			<b>or</b>
PHIL 106H	3	HIST 107H	3
PHIL 108	3	HIST 108	3
SPAN 101	5		<b>or</b>
SPAN 102	5	HIST 108H	3
SPAN 201	5	HIST 109	3
SPAN 202	5	HIST 110	3
SPAN 210	5	HIST 111	3
SPAN 211	5	HIST 112	3
		HIST 120	3
		HIST 127	3
		HIST 130	3
		HIST 139	3
		HIST 140	3
		HIST 145	3
		HIST 155	3
		HIST 222	3
		LING 101	3
		POLI 103	3
		POLI 103H	3
		POLI 104	3
		POLI 105	3
		POLI 110	3
		POLI 116	3
		PSY 101	3
		PSY 102	3
		PSY 110	3
		PSY 111	3
		PSY 133	3
		PSY 152	3
		PSY 203	3
			<b>or</b>
		PSY 205	3
		PSY 206	3
			<b>or</b>
		PSY 206H	3
		PSY 212	3

### Emphasis in Social and Behavioral Sciences

These courses emphasize the perspective, concepts, theories and methodologies of the variety of disciplines that comprise study in the Social Sciences. Students will study human experience in the context of the larger society. Students will study how individuals, social subgroups, and societies operate in relation to each other.

This emphasis includes lower division coursework that prepares students for majors in the areas of Social Behavioral sciences such as Anthropology, History, Political Science, Psychology and Sociology. Choose 18 units of coursework, including 2 or more disciplines, from the following list:

ANTH 210	3
	<b>or</b>
ANTH 210H	3
ANTH 214	3
ANTH 216	3
ANTH 220	3
SOC 114	3
SOC 118	3
SOC 122	3
SOC 201	3
	<b>or</b>
SOC 201H	3
SOC 202	3
SOC 203	3
SOC 216	3
ECON 100	3
ECON 101	3
ECON 102	3
GEOG 102	3
HIST 103	3

	<b>Units</b>
PSY 213 Survey of Drug and Alcohol Use and Abuse	3
PSY 220 Introduction to Social Psychology	3
PSY 225 Psychology of Human Sexuality	3
PSY 226 Psychology of Women	3

May include up to four units from

MATH 165 Introductory Statistics	4
MATH 190 Calculus with Analytic Geometry I	4

### Emphasis in Technology and Business

These courses emphasize the integration of theory and practice within the fields of business and technology. Students will develop the ability to effectively manage and lead organizations. Students will demonstrate an understanding of the place of business and technology within the global economy.

This emphasis includes lower division coursework that prepares students for majors in the areas of Technology and Business such as Accounting, Computer Information Systems, Economics, Finance, Human Resources, International Management and Marketing at a four-year institution. Choose 18 units of coursework, including two or more disciplines, from the following list:

ACCT 101 Financial Accounting	4
ACCT 102 Managerial Accounting	4
BUS 130 Introduction to Business	3
BUS 160 Business Law and the Legal Environment I	3
BUS 161 Business Law and the Legal Environment II	3
CSIS 111 Introduction to Programming Concepts and Design	4
CSIS 130 Microcomputer Applications I - Introductory MS Office	4
CSIS 140 Java Programming	4
CSIS 225 Object Oriented Programming with C++	4
ECON 101 Principles of Economics	3
ECON 102 Principles of Economics	3
REAL 210 Real Estate Principles	3

May include up to 4 units from the following courses:

MATH 162 Introductory Mathematical Analysis	4
MATH 165 Introductory Statistics	4
MATH 190 Calculus with Analytic Geometry I	4
MATH 191 Calculus with Analytic Geometry II	4

**Total Units 18**

\*Pending chancellor's office approval

## Library Technology

The library technology program trains students for paraprofessional work in school, academic, research, public and special libraries.

**Please select 18 "degree appropriate" units from the courses below.**

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

<b>Library Technology</b>	<b>Units</b>
LIBT 100 Information Literacy	1
LIBT 101 Introduction to Library Public Services	2
LIBT 102 Information Sources and Research Methods	3
LIBT 201 Introduction to Cataloging	3
LIBT 203 Introduction to Acquisitions	2
LIBT 290 Children's Library Services	2
LIBT 295 Audiovisual Services	3

### Additional acceptable courses

BUS 152 Business Communications	3
BUS 175 Introduction to Management	3
BUS 192 Advertising	3
COMM 104 Public Relations	3
CSIS 130 Microcomputer Applications I	4
ENGL 293 Children's Literature	3
ENGL 296 Introduction to Folklore	3

**Total Units 18**

## \*Mathematics

The purpose of this program is to prepare students for a career in mathematics. The problem solving skills taught in mathematics prepare students for a great number of job opportunities. A four-year degree could lead to employment in academics, a government agency, or an insurance agency. This major can also serve as a basis for careers in engineering, science, data processing, actuarial science, and dispensing opticians. The degree prepares students for transfer into the junior year of baccalaureate degree program in mathematics or related areas such as statistical or actuarial fields.

A course may be used only once to fulfill degree requirements:

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

<b>Required courses:</b>	<b>Units</b>
MATH 190 Calculus with Analytic Geometry I	4
MATH 191 Calculus with Analytic Geometry II	4
MATH 210 Calculus with Analytic Geometry III	4

<b>Select two of the following:</b>	
MATH 211 Differential Equations	4
MATH 212 Introduction to Linear Algebra	4
PHYS 201 Physics	5

**Total Units 20-21**

\*Pending chancellor's office approval

## Medium and Heavy Truck Technology

Prepares students for entry-level occupations in diesel technology, medium and heavy trucks, and provide upgrading within these occupations. Employment positions are available in both the public and the private sector.

**Please select 18 "degree appropriate" units from the courses below.**

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

### Medium & Heavy Truck Technology

MTRK 105 Diesel and Gasoline Generator Technology	2
MTRK 130 Diesel Medium/Heavy Truck Technology I	11
MTRK 190 Introduction to Compressed Natural Gas Vehicles	3
MTRK 230 Diesel Medium/Heavy Truck Technology II	11
MTRK 235 Diesel Rebuilding: Detroit Engine-Series 71 and 92	2
MTRK 240 Diesel Rebuilding: Cummins Engine	2
MTRK 245 Diesel Rebuilding: Caterpillar Engine	2
MTRK 265 Basic Heavy Duty Electrical	2
MTRK 270 Electronic Controls Systems: Detroit Diesel Engine DDEC I, II, III, and IV	2
MTRK 271 IS Series Cummins	2
MTRK 272 Diesel Engine Troubleshooting	2
MTRK 274 Detroit Diesel Series 60 Engine Overhaul	2
MTRK 280 Heavy Duty Brake Systems	2
MTRK 285 Allison Transmissions	2

### Additional acceptable course:

BUS 170 Small Business Management	3
<b>Total Units 18</b>	

## \*Music

A foundational musical background, including music theory, history, rudimentary piano competency, performance and techniques/application.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

### Theory

**2 units Musicianship and 3 units Harmony**

	<b>Units</b>
MUS 100 Musicianship	2
<b>or</b>	
MUS 101 Musicianship	2
<b>or</b>	
MUS 200 Musicianship	2
<b>or</b>	
MUS 201 Musicianship	2
MUS 102 Harmony	3
<b>or</b>	
MUS 103 Harmony	3
<b>or</b>	
MUS 202 Harmony	3
<b>or</b>	
MUS 203 Harmony	3

### History

Select 1 course from the following:

MUS 110 History of Music I	3
MUS 111 History of Music II	3
MUS 113 History of Rock & Roll	3
MUS 114 Music Appreciation	3
MUS 218 History of Jazz	3
MUS 225 Introduction to American Music	3

### Piano

Select 1 course from the following:

MUS 105 Elementary Piano I	2
MUS 106 Elementary Piano II	2
MUS 161 Keyboard Skills for the Music Major	3
MUS 205 Intermediate Piano I	2
MUS 206 Intermediate Piano II	2
MUS 235 Advanced Piano I	2
MUS 236 Advanced Piano II	2

\*Pending chancellor's office approval

## Techniques / Application

Select 2 Units from the following:

	Units
MUS 106 Elementary Piano II	2
MUS 108 Woodwind Techniques	1
MUS 109 Brass and Percussion Techniques	1
MUS 115 Voice	2
MUS 120 Opera Workshop	2
MUS 122 Beginning Guitar I	2
MUS 123 Beginning Guitar II	2
MUS 124 Intermediate Guitar	2
MUS 125 Intermediate Guitar	2
MUS 131 Career Opportunities in the Music Entertainment Industry	3
MUS 137 Standard Percussion Instrumentation/Techniques	1
MUS 138 World Percussion Instrumentation/Techniques	1
MUS 140 Electronic Music I	2
MUS 141 Electronic Music II	2
MUS 154 Jazz Improvisation	3
MUS 155 The Professional Pianist	2
MUS 160 Popular Piano Styles	2
MUS 161 Keyboard Skills for the Music Major	3
MUS 162 Songwriting	2
MUS 170 Sight Reading for the Studio	3
MUS 172 Styles, Technique, and the "Soul" of Popular Singing	2
MUS 205 Intermediate Piano I	2
MUS 206 Intermediate Piano II	2
MUS 210 Intermediate Voice	2
MUS 215 Musical Theatre Production	4
MUS 224 Musical Theatre Workshop Production	4
MUS 230 Advanced Voice (Classical)	2
MUS 231 Advanced Voice (Popular)	2
MUS 235 Advanced Piano I	2
MUS 236 Advanced Piano II	2
MUS 240 Electronic Music III	2

*No courses used to satisfy other requirements may be counted in this section. A course may be used only once to fulfill Techniques/Application Requirement.*

## Performance

Select 6 Units from the following:

MUS 107 Jazz Ensemble	4
MUS 116 Chamber Singers I	4
MUS 117 Vocal Ensemble I	3
MUS 118 Concert Choir I	3
MUS 119 Concert Choir II	3
MUS 129 Pop/Rock Ensemble I	2
MUS 139 Pop/Rock Ensemble II	2
MUS 152 Jazz Combos	1
MUS 145 Pop, Rock, and Jazz Performance Styles	4
MUS 146 Pop/Cumbia Ensemble I	2

	Units
MUS 147 Pop/Salsa Ensemble I	2
MUS 121 Chamber Chorale	3
MUS 126 Chamber Singers II	4
MUS 153 Chamber Jazz	4
MUS 157 Percussion Ensemble I	1
MUS 158 World Percussion Ensemble I	1
MUS 170 Sight Reading for the Studio	3
MUS 207 Laboratory Band	2
MUS 208 Studio Orchestra	4
MUS 216 Brass Choir I	3
MUS 217 Chamber Winds I	4
MUS 226 Brass Choir II	3
MUS 227 Chamber Winds II	4
MUS 232 Women's Ensemble I	4
MUS 233 Men's Ensemble	3
MUS 234 Wind Symphony I	4
MUS 242 Women's Ensemble II	4
MUS 244 Wind Symphony II	4
MUS 252 Fusion Ensemble	1
MUS 277 Vocal Ensemble II	3

*A course may be used only once to fulfill performance requirement.*

**Total Units 18-19**

## Photography

Prepares students to enter the field of professional photography with the ability to become successful business people and highly valued employees. Career choices include working as commercial advertising photographers, corporate photographers, portrait and wedding photographers, photographic lab technicians.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

**Please select 18 "degree appropriate" units from the courses below**

	Units
PHTO 101 Basic Photography	3
PHTO 102 Intermediate Photography	3
PHTO 103 Advanced Photography	3
PHTO 110 Photography Lab	1
PHTO 125 Photography as an Art Medium	3
PHTO 126 Advanced Photography as an Art Medium	3
PHTO 202 Photojournalism I	3
PHTO 203 Photojournalism II	3
PHTO 205 Color Photography	3
PHTO 206 Intermediate Color Photography	3
PHTO 211 Environmental Photography	3

PHTO 213	Studio Portraiture	3
PHTO 215	Electronic Photo Imaging	3
PHTO 698A	Cooperative Education	1
PHTO 698B	Cooperative Education	2
PHTO 698C	Cooperative Education	3
PHTO 698D	Cooperative Education	4
PHTO 699A	Cooperative Education	1
PHTO 699B	Cooperative Education	2
PHTO 699C	Cooperative Education	3
PHTO 699D	Cooperative Education	4
<b>Total Units</b>		<b>18</b>

## Physical Education

The PE major is organized with multiple goals in mind:

1. To provide individuals with skills in activities that they may enjoy for a lifetime.
2. To provide individuals with an understanding of and a means of maintaining of physical fitness,
3. To provide introductory course work for students wishing to enter the field.

**Please select 18 "degree appropriate" units as listed below.**

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

**Select 12-18 Units from the core courses listed below**

### Core Courses

PE169	Introduction to Coaching	3
PE 170	Fitness for Life	3
PE 171	Health Science	3
PE 172	Introduction to Physical Education	3
PE 173	Nutrition for Fitness	3
PE 174	Introduction to Team Sports	3
PE 175	Introduction to Individual and Dual Sports	3
PE 176	Elementary School Physical Education	2
PE 177	First Aid - Responding to Emergencies	3
PE 182	Care and Prevention of Athletic Injuries	3

**2-6 units may be taken from the courses listed below**

### Theory Courses

PE 184	Volleyball Theory	2
PE 185	Softball Theory	2
PE 186	Baseball Theory	2
PE 187	Techniques and Strategy of Intercollegiate Football	2
PE 188	Basketball Theory	2

<b>Varsity Sport Courses</b>		<b>Units</b>
PE 209	Women's Varsity Soccer	2
PE 211	Women's Varsity Volleyball	2
PE 212	Women's Varsity Swimming	2
PE 213	Women's Varsity Basketball	2
PE 214	Women's Varsity Softball	2
PE 215	Women's Varsity Track and Field	2
PE 216	Women's Varsity Cross Country	2
PE 220	Men's Varsity Football	2
PE 221	Men's Varsity Basketball	2

### Biological Science

BIOL 200	Human Anatomy	4
BIOL 201	Human Physiology	4

**Total Units 18**

## Public Works

These courses prepare new personnel for public works occupations and provide upgrading within these occupations. Job opportunities exist in both the public and private sectors.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

**Please select 18 "degree appropriate" units from the courses below.**

PUB 150	Public Works I	3
PUB 151	Street Construction and Maintenance	3
PUB 154	Soils - Trenching and Grading	3
PUB 155	Public Works Inspection	3
PUB 156	Concrete Structures and Inspection	3
PUB 157	Asphalt and Portland Cement	3
PUB 158	Municipal and Urban Tree	3
PUB 160	Public Administration	3
PUB 161	California Occupational Safety and Health	3
PUB 162	Traffic Control Standards, Practices, and Policies	3
PUB 164	Plan Interpretation and Cost Estimating	3
PUB 165	Environmental Management in Public Works	3
PUB 166	Supervision in Public Works	3

**Total Units 18**

## \*Recording Technology

Recording Technology is a degree in audio production and post production for the entertainment industry. It includes studies in sound for film, record production, live sound and music business. All courses are required.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

<b>Core Audio Courses</b>		<b>Units</b>
REC 105	Fundamentals of Audio Technology	4
REC 115	Recording Studio Workshop I	4
REC 205	Advanced Audio Technology	4
REC 215	Recording Studio Workshop II	4

<b>Digital Audio Courses</b>		<b>Units</b>
REC 125	Digital Audio Technology I	3
REC 225	Digital Audio Technology II	4

<b>Other Required Courses</b>		<b>Units</b>
REC 135	Live Sound Reinforcement	4
REC 145	Critical Listening Skills for Engineers	3
REC 235	Acoustics for Engineers	3
REC 245	Music Business/Audio Careers	3
<b>Total Units</b>		<b>36</b>

## Registered Nursing

Citrus College offers a program designed to meet the requirements for licensure by the California Board of Registered Nursing. It is designed to qualify the student for the licensure examination and entry into practice as a Registered Nurse. Additionally, completion of the Associate in Science Degree in Nursing prepares a student to transfer to a four-year institution for completion of a baccalaureate degree. The curriculum follows the Program Philosophy and Conceptual Nursing Framework. Advanced placement in the program may be granted to those students with certain prior vocational nursing, or registered nursing education or equivalent

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

### FIRST YEAR - MAJOR REQUIREMENTS

<b>FIRST SEMESTER</b>		<b>Units</b>
RNRS 190	Foundations of Nursing	4
RNRS 191	Intro to Medical/Surgical Nursing I	5
RNRS 192	Pharmacology for Nurses	2

<b>SECOND SEMESTER</b>		<b>Units</b>
RNRS 193	Pediatric Nursing	3.5
RNRS 194	Obstetrics/Maternity Nursing	3.5
RNRS 195	Beginning Medical/Surgical Nursing II	5

### SECOND YEAR - MAJOR REQUIREMENTS

<b>THIRD SEMESTER</b>		<b>Units</b>
RNRS 201	Medical-Surgical Nursing III	5
RNRS 203	Mental Health-Psychiatric Nursing	3

<b>FOURTH SEMESTER</b>		<b>Units</b>
RNRS 251	Medical-Surgical Nursing IV	6
RNRS 252	Leadership for Professional Nursing Practice	2
RNRS 290	Gerontological Nursing	2

**Total Units 41**

## Social and Behavioral Sciences

Courses in the social and behavioral sciences focus on people as members of society. They assist in developing an awareness of the methods of inquiry used by the social and behavioral sciences. Critical thinking is stimulated about the ways people act and have acted in response to their societies, and appreciation is developed of how societies and social groups operate. This category includes introductory or integrative survey courses in cultural anthropology, economics, history, political science, psychology, sociology, cultural geography, and related disciplines.

**Please select 18 "degree appropriate" units from the courses below.**

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

<b>ANTHROPOLOGY</b>		<b>Units</b>
ANTH 210	Introduction to Cultural Anthropology	3
ANTH 210H	Introduction to Cultural Anthropology	3
ANTH 212	Introduction to Physical Anthropology	3
ANTH 212L	Introduction to Physical Anthropology Lab	1
ANTH 214	Native North America	3
ANTH 216	Sex and Gender in a Cross Cultural Perspective	3
ANTH 218H	Honors Presentation Seminar	1
ANTH 220	Introduction to Archaeology	3

<b>ECONOMICS</b>		<b>Units</b>
ECON 100	Survey of Economics	3
ECON 101	Principles of Economics	3
ECON 101H	Principles of Economics (Honors)	3
ECON 102	Principles of Economics	3

<b>CULTURAL GEOGRAPHY</b>		<b>Units</b>
GEOG 102	Cultural Geography	3
<b>HISTORY</b>		
HIST 103	History of World Civilization up to 1500	3
HIST 103H	History of World Civilization up to 1500	3
HIST 104	History of World Civilization since 1500	3
HIST 105	History of World Civilization - The Modern Period	3
HIST 106	20th Century Western Civilization	3
HIST 107	Political and Social History of the United States	3
HIST 107H	Political and Social History of the United States (Honors)	3
HIST 108	Political and Social History of the United States	3
HIST 108H	Political and Social History of the United States (Honors)	3
HIST 109	The World in Conflict - The 20th Century, a History	3
HIST 110	A Survey History of Africa	3
HIST 111	History of the African-Americans	3
HIST 112	History of the African-Americans	3
HIST 120	British Life and Culture	3
HIST 127	Spanish Civilization	3
HIST 130	History of Latin America	3
HIST 139	History of California	3
HIST 140	History of the American West	3
HIST 145	History of Mexico	3
HIST 155	History of the Vietnam War	3
HIST 222	History of World War II	3
<b>CHILD DEVELOPMENT</b>		
CHLD 100	Introduction to Education and Teaching	3
CHLD 106	Parenting Your Preschool Child	0.5
CHLD 108	Model Approach to Partnership in Parenting	1.5
CHLD 110	Early Childhood Development	3
CHLD 111	Child Development Youth - Adolescence	3
CHLD 112	Principles of Early Childhood Education I	3
CHLD 114	Home-Child-Community Relations	3
CHLD 118	Effective Family Child Care Practices	2
CHLD 120	Literacy for Children	3
CHLD 121	Art for Children	2
CHLD 122	Music and Rhythms for Children	2
CHLD 123	Science Experiences for Children	1
CHLD 124	Mathematics for Children	1
CHLD 130	Infant Development and Group Care	3

\*Pending chancellor's office approval

	<b>Units</b>	
CHLD 134	Parent-Child Interaction	3
CHLD 140	Before/After-School Programs	3
CHLD 142	Parent Teacher Partnership	1
CHLD 144	Health, Safety and Nutrition for Young Children	3
CHLD 145	Child Abuse Education	3
CHLD 147	Computers In Early Childhood Programs	3
CHLD 150	Multi-Culture Anti-Bias Classrooms	3
CHLD 154	Observing and Recording Behavior	3
CHLD 156	Practicum A in Early Childhood Education	2
	<b>CHLD 156L Practicum A Lab</b>	<b>1</b>
CHLD 158	Practicum B in Early Childhood Education	2
	<b>CHLD 158L Practicum B Lab</b>	<b>1</b>
CHLD 160	Perceptual Motor and Movement Activities	2
CHLD 164	The Child with Special Needs	3
CHLD 166	Speech and Language Development and Disorders	2
CHLD 168	Developmental Risk: Infants and Toddlers	2
CHLD 169	Managing Challenging and Disruptive Behaviors	1
CHLD 181	Infant and Toddler Caregiver: Relationships	1
CHLD 182	Infant and Toddler Caregiver: Socialization and Emotional Development	1
CHLD 183	Infant and Toddler Caregiver: Learning and Development	1
CHLD 184	Infant and Toddler Caregiver: Environments and Routines	1
CHLD 190	Administration of Early Childhood Education Programs I	3
CHLD 191	Administration of Early Childhood Education Programs II	3
CHLD 194	Personnel Issues in Early Childhood Education Programs	3
CHLD 220	Early Childhood Education Mentor Teacher Practices	3
<b>HUMANITIES</b>		
HUM 101	Humanities	3
HUM 101H	Humanities	3
HUM 102	Humanities	3
HUM 110	Humanities in the 20th Century	3
PHIL 109	Critical Reasoning and Writing	3
PHIL 110	Philosophy/Logic	3

**Lab courses are in bold.**

<b>PSYCHOLOGY</b>		<b>Units</b>
PSY 101	Introduction to Psychology	3
PSY 102	Psychobiology	3
PSY 103	Elementary Statistics	3
PSY 110	Psychology of Religion I	3
PSY 111	Psychology of Religion II	3
PSY 133	Personal and Social Growth	3
PSY 152	Psychology of Human Relations	3
PSY 203	Research Methods in the Behavioral Sciences	3
PSY 205	Developmental Psychology	3
PSY 206	Child Growth and Development	3
PSY 206H	Child Growth and Development	3
PSY 212	Abnormal Psychology	3
PSY 213	Survey of Drug and Alcohol Use and Abuse	3
PSY 220	Introduction to Social Psychology	3
PSY 225	Psychology of Human Sexuality	3
PSY 226	Psychology of Women	3
PSY 250	Honors Topics Seminar	0.5

<b>SOCIOLOGY</b>		
SOC 114	Marriage, Family, and Intimate Relations	3
SOC 118	Minorities in America	3
SOC 122	Introduction to Latino Studies	3
SOC 201	Introduction to Sociology	3
SOC 201H	Introduction to Sociology	3
SOC 202	Contemporary Social Problems	3
SOC 203	Criminology	3
SOC 216	Sex and Gender in a Cross Cultural Perspective	3
SOC 218H	Honors Presentation Seminar	1

**Total Units 18**

### \*Theatre Arts

A fundamental exploration in the area of Theatre Arts, highlighting Acting, Technical Theatre / Design, Theatre History and Play Analysis.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

#### Required Core Courses:

THEA 101	Introduction to Theatre Arts	3
THEA 120	Introduction to Technical Theatre	3
THEA 201	Acting Fundamentals I	3

#### Play Performance

Select 3 Units from the following:

THEA 210	Rehearsal and Performance I	3
THEA 293	Theatre for Young Audiences	3
THEA 294	Shakespeare in Production	3

### Play Analysis Units

Select 1 course from the following:

THEA 200	Script Analysis - The Art of the Theatre	3
THEA 204	Stage and Screenwriting	3
THEA 241	Fundamentals of Stage Direction	3

#### Electives

Select 1 course from the following:

THEA 130	Introduction to Theatrical Scenery	3
THEA 140	Introduction to Stage Lighting	3
THEA 245	Stage Management	3
THEA 250	Theatre Appreciation	3
THEA 284	Acting Shakespeare	3
THEA 292	Special Techniques in Acting	3

**Total Units 18**

### \*Theatre Arts - Acting

A fundamental exploration in the area of Theatre Arts focusing on Performance Styles and Acting Techniques.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

<b>REQUIRED CORE COURSES:</b>	THEA 101	
	Introduction to Theatre Arts	3
THEA 120	Introduction to Tech for Theatre, TV and Film	3
THEA 202	Acting Fundamentals II	3

*Note: Theatre Arts 201 is a pre-requisite for Theatre Arts 202.*

#### Play Performance

Select 3 Units from the following:

THEA 210	Rehearsal and Performance I	3
THEA 220	Rehearsal and Performance II	3

#### Acting Techniques

Select 6 Units from the following:

THEA 104	Voice and Movement for the Actor	3
THEA 211	Acting for the Camera	3
THEA 284	Acting Shakespeare	3
THEA 292	Special Techniques in Acting	3

*A course may be used only once to fulfil degree requirement.*

#### Speciality Courses

Select 1 course from the following:

THEA 241	Fundamentals of Stage Direction	3
THEA 293	Theatre for Young Audiences	3
THEA 294	Shakespeare in Production	3

**Total Units 21**

## \*Theatre Arts - Technical Theatre Design

A fundamental exploration in the area of Theatre Arts focusing on Technical Theatre and Design. Career paths include educator, master electrician, stage technician, moving light programmer, scenic designer, lighting designer, art director, technical director and-stage manager for theatre, television, film and theme parks.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

<b>REQUIRED CORE COURSES:</b>		<b>Units</b>
THEA 101	Introduction to Theatre Arts	3
THEA 120	Introduction to Technical Theatre	3
THEA 201	Acting Fundamentals I	3

### Fundamentals of Design

THEA 130	Introduction to Theatrical Scenery	3
THEA 140	Introduction to Lighting for Theatre, Television and Film	3

### Technical Theatre Electives

Three Units of		
THEA 125	Technical Production Laboratory	2
THEA 150	Introduction to Intelligent Lighting Systems for Theatre	3
THEA 160	Computer Aided Design for Theatre	4
THEA 245	Stage Management	3
THEA 260	Introduction to Show Production Systems	3
<b>Total Units 18</b>		

\*Pending chancellor's office approval

## Vocational Nursing

Successful completion of the program studies allows the student to become eligible to take the State Board Examination for Licensed Vocational Nurses (NCLEX).

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of **REQUIRED CORE COURSES** and above) of the following major requirements:

<b>REQUIRED COURSES:</b>		<b>Units</b>
VNRS 150	Fundamentals of Nursing	3
VNRS 151L	Fundamentals of Nursing Lab	3
VNRS 152	Pharmacology I	1
VNRS 153	Introductory Nutrition for the Vocational Nurse	1

		<b>Units</b>
VNRS 154	Body Structure and Function for the Vocational Nurse I	1.5
VNRS 155	Social-Psychology for the Vocational Nurse	1
VNRS 160	Medical-Surgical Nursing I	3
VNRS 161L	Medical-Surgical Nursing I Lab	3
VNRS 162	Pharmacology II	1
VNRS 163	Diet Therapy for the Vocational Nurse	1
VNRS 164	Body Structure and Function for the Vocational Nurse II	1.5
VNRS 165	Growth and Development: Young Adult - Elderly	1
VNRS 170	Medical-Surgical Nursing II	7
VNRS 171L	Medical-Surgical Nursing II Lab	7
VNRS 172	Advanced Pharmacology	2
VNRS 173	Psychology for Vocational Nurses	2
VNRS 180	Pediatric Nursing	3
VNRS 181	Growth and Development: Infancy-Adolescence	1
VNRS 182	Obstetrical-Gynecological Nursing	4
VNRS 183	Leadership in Nursing	3

**Total Units 50**

## Water Technology

This program is designed to prepare students who wish to seek employment in the public water supply industry or qualify for a more responsible position within the industry. These courses will be helpful to students who wish to prepare for the T1, T2, T3, T4 and T5 Water Treatment Operator and D1, D2, D3, D4, and D5 Water Distribution Operator certification examinations given by the California Public Health Department. Coursework also provides contact hours for Operator certification maintenance requirements

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of "C" and above) of the following major requirements:

**Please select 18 "degree appropriate" units from the courses below:**

		<b>Units</b>
WATR 150	Introduction to Water Systems	3
WATR 151	Water Resources and Distribution I	3
WATR 153	Water Resources and Distribution II	3
WATR 155	Water Distribution Operator Exam Preparation	1
WATR 156	Water Treatment I	3
WATR 157	Water Treatment II	3
WATR 162	Water Conservation	3
WATR 165	Water Systems Operations and Technology Update	1

**Total Units 18**