

Degree Curricula and Certificate Programs



INSTRUCTIONAL PROGRAMS

ACADEMIC PROGRAMS

***=ASSOCIATE DEGREE PROGRAMS**

Administration of Justice*
Anthropology
Art
Astronomy
Athletic Training
Biology & Physical Science*
Bookkeeping/Accounting*
Business Management*
Chemistry
Child Development*
Cinema
Communication Studies
Computer Electronics*
Computer Information Technology*
Computer Networking
Computer Science*
Dance
Drafting (Design Arts & Technology)*
Economics
Engineering*
English
English as a Second Language (ESL)
Environmental Control*
Fire Technology*
Foreign Language
General Arts and Sciences
General Education-Transfer
Geography

Geology
History
Hotel/Restaurant Management*
Humanities
Industrial Technology*
Interior Design*
Journalism
Library Media Technology
Manufacturing Technology*
Marketing*
Mathematics*
Music
Nursing (LVN and RN)*
Personal Development
Philosophy
Photography
Photojournalism
Physics
Political Science
Psychology
Quality Technology*
Radio/Television/Film
Real Estate
Sign Language
Social Science
Sociology
Theatre
Welding

CERTIFICATE PROGRAMS

Administration of Justice
Bookkeeping/Accounting

- Accounting Technician
- Accounting Transfer Option

Business Management

- Human Resources Management
- Finance
- Small Business Management

Child Development

- Core Certificate
- Infant/Toddler
- Preschool
- School Age
- Special Education
- Supervision/Administration

Computer Information Technology

- Administrative Assistant
- Computer Business Applications

Computer Electronics
Computer Networking

- CISCO
- MCSE

Drafting

- Architectural
- Computer Drafting
- Mechanical

EMT
Fire Technology

- Pre-Service Option
- In-Service Option

Interior Design
Journalism
Library Media Technology
Manufacturing Technology
Marketing
Medical Assistant
Multi-Media

- Broadcast
- Business
- Communication
- Creative
- Music

Nursing

- CNA

Photojournalism
Quality Technology
Radio/Television/Film
Real Estate
Welding

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***ADMINISTRATION OF JUSTICE PROGRAM DESCRIPTION**

The Administration of Justice program involves the study of law enforcement in the United States with an emphasis on California law, procedures and evidence. Provides instruction in the understanding the background behind the laws.

Upon completion of the courses listed below (a total of 18 units), the student will have fulfilled the core requirements for an associates of science degree in Administration of Justice.

ADMJUS 101	Intro - Law Enforcement	3.0
ADMJUS 110	Principles & Procedures	3.0
ADMJUS 125	Criminal Law I	3.0
ADMJUS 135	Criminal Evidence	3.0
ADMJUS 185	Police-Community Relations	3.0

In addition to five classes listed above, 3 additional units must be selected from the remainder of the Administration of Justice courses offered at College of the Canyons.

CERTIFICATE PROGRAM

The purpose of a certificate program is to provide the student with personal and technical competence in a specific occupational area. Successful completion of the core courses listed below provide the student with broad knowledge and proficiency in the area of Administration of Justice.

Certificate of Achievement

ADMJUS 101	Intro - Law Enforcement	3.0
ADMJUS 110	Principles & Procedures	3.0
ADMJUS 125	Criminal Law I	3.0
ADMJUS 135	Criminal Evidence	3.0
ADMJUS 185	Police-Community Relations	3.0

In addition to five classes listed above, 3 additional units must be selected from the remainder of the Administration of Justice courses offered at College of the Canyons.

Total	18.0 units
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Students are required to file a certificate petition with the Counseling Office.

DEGREE AND CERTIFICATE REQUIREMENTS

Classes required for the certificate can also be used to satisfy the 18-unit major requirement for the associate degree.

For the remaining general-education requirements, major courses and unit requirements, consult this catalog and/or a school counselor.

ANTHROPOLOGY PROGRAM DESCRIPTION

Anthropology is a scientific discipline that studies humans and human behavior. The subject is typically divided into two broad fields – physical and cultural anthropology. Physical anthropology is concerned with the evolutionary and biological features of human population. Cultural anthropology deals with a wide variety of learned forms of behavior, such as language, kinship, religion, economics, technology, values and personality.

As both a biological and social science, anthropology seeks to order and explain humankind and our bio-cultural history. As such, the anthropology program has been developed to provide a broad perspective concerning human biological and cultural origins, evolution and variations.

Anthropology courses compliment other social science and biological science courses. Anthropology majors are of value in careers as diverse as law and medicine. Specific careers such as an archaeologist, museum curator, archivist, documentary filmmaker and naturalist may be pursued through anthropology.

DEGREE REQUIREMENTS

An associate degree is not available in anthropology since this is considered to be a transfer major. Students wishing the A.A. degree should major in general education and include those classes listed below or other classes required by the transfer institution. Students not wishing to transfer may major in Social Science.

***ART PROGRAM DESCRIPTION**

The Art program provides students two major foci: one is understanding and appreciating the cultural heritage of art; the second is developing skills in the studio arts

* Associate Degree Program

Degree Curricula and Certificate Programs

of drawing, painting, printmaking, design and sculpture. The art program offers a wide range of studio-skills courses at beginning and intermediate levels. Appreciation and history courses survey the development of art from the Paleolithic Period to the present, with a special focus on contemporary American artists. In addition to developing critical and creative skills, art students have many opportunities to get involved in contemporary art culture. As part of the regular program, students will do many of the following activities: visit local exhibitions, artists' studios, private collections and art libraries; gain assistance for transfer to four-year colleges and art institutions; prepare professional portfolios and obtain skills for personal appreciation.

DEGREE REQUIREMENTS

The major requirement for an associate degree in art may be met by completing any 18 units of art courses. Students planning to transfer should major in general education and include the classes required by the transfer institution.

ASTRONOMY/PHYSICS PROGRAM DESCRIPTION

The astronomy/physics program provides curriculum concerned with the properties of matter and energy, their interactions and transformations. Astronomy is the study of the principles and development of the solar system and the galaxies. The physics program includes both major and non-major courses. Astronomy classes are limited to general-survey introductory courses for physical-science majors or students looking for interesting alternatives to fulfill general-education requirements. The following is a sample of career options available for the astronomy/physics major. A few require the associate degree, most require a baccalaureate degree, and some require a graduate degree: air pollution operations, consumer safety officer, engineer, teacher, astrophysicist.

DEGREE REQUIREMENTS

An associate degree is not available in physics or astronomy since these are considered to be transfer majors.

*BIOLOGICAL SCIENCES PROGRAM DESCRIPTION

Biological sciences covers all aspects of the scientific study of life and emphasizes both the unity and diversity

of living things. The structure, function and behavior of organisms are studied at the molecular, cellular, organismal and environmental levels. The biology program serves three areas of study: It provides a broad background of studies for the biology major preparing for transfer to a four-year institution; it offers support courses in human anatomy, human physiology and general microbiology that may be used to satisfy prerequisites for nursing programs and other allied-health fields; and it provides courses in natural science to fulfill general-education requirements. The following are many of the career options available for the biology major. A few of these require an associate degree; most require a baccalaureate degree and some require a graduate-level degree: agricultural consultant, animal health technician, biotechnology technician, dentist, environmental consultant, field biologist, forester, high school or college teacher, marine biologist, microbiologist, physician, veterinarian. In addition, a background in biology may be required for the following: registered nurse, physical therapist, respiratory therapist, dental assistant, medical technician, physician's assistant, and optometrist.

DEGREE REQUIREMENTS

The major requirement for an associate degree in **BIOLOGICAL AND PHYSICAL SCIENCE** may be met by completing any 18 units of science classes. Students planning to transfer should major in general education and include classes required by the transfer institution.

*BUSINESS PROGRAM DESCRIPTION

The business program offers a comprehensive range of courses for both the transfer and non-transfer student. Courses are offered in areas such as accounting, book-keeping, business mathematics, international business, marketing, sales, electronic commerce, ethics, conflict resolution and entrepreneurship. Students wishing to complete transfer requirements for a degree in Business Administration may complete their lower-division work in accounting, economics, mathematics, and law prior to transfer. Certificate programs are designed to allow students to pursue knowledge in specialized areas that include accounting technician, entrepreneurship, personal finance, and marketing.

Degree Requirements

For the student interested in pursuing a four-year degree in business administration, the transfer program

* Associate Degree Program

Degree Curricula and Certificate Programs

certificate develops an understanding of accounting theory, technical procedures and professional standards and ethics.

BUS 160	Business Ethics	3.0 Units
CIT 145	QuickBooks (Recommended)	3.0 Units
Total		23.0 Units

Transfer Certificate

BUS 201	Principles of Accounting I	5.0 Units
BUS 202	Principles of Accounting II	5.0 Units
BUS 211	Business Law	3.0 Units
CIT 145	QuickBooks (Recommended)	3.0 Units
ECON 201	Macroeconomics	3.0 Units
ECON 202	Microeconomics	3.0 Units
ECON 291	Statistical Methods in Business & Economics	3.0 Units
Total		22.0 Units

Accounting Technician Certificate

BUS 100	Introduction to Business	3.0 Units
BUS 101	Bookkeeping & Accounting	5.0 Units
BUS 144	Business Mathematics	5.0 Units
BUS 206	Computerized Income Tax Accounting	3.0 Units
OR		
BUS 211	Business Law	3.0 Units
CIT 115	Business English	3.0 Units
CIT 145	QuickBooks	3.0 Units
Total		22.0 Units

Small Business Management Certificate

BUS 100	Introduction to Business	3.0 Units
OR		
BUS 110	Principles of Management	3.0 Units
BUS 101	Bookkeeping & Accounting	5.0 Units
BUS 117	Business Entrepreneurship	3.0 Units
BUS 126	Managing Diversity in the Workplace	3.0 Units
BUS 132	Negotiation and Conflict Resolution	3.0 Units
BUS 140	Principles of Marketing	3.0 Units

Human Resource Management Certificate

BUS 100	Introduction to Business	3.0 Units
BUS 110	Principles of Management	3.0 Units
BUS 126	Managing Diversity in the Workplace	3.0 Units
BUS 132	Negotiation and Conflict Resolution	3.0 Units
BUS 160	Business Ethics	3.0 Units
BUS 211	Business Law	3.0 Units
CIT 116	Business Communications	3.0 Units
Total		21.0 Units

Finance Certificate

BUS 100	Introduction to Business	3.0 Units
BUS 101	Bookkeeping & Accounting I	5.0 Units
BUS 144	Business Mathematics	5.0 Units
BUS 154	Finance	3.0 Units
BUS 156	Introduction to Investments	3.0 Units
Total		19.0 Units

Marketing Certificate

BUS 100	Introduction to Business	3.0 Units
BUS 110	Principles of Management	3.0 Units
BUS 140	Principles of Marketing	3.0 Units
BUS 141	Principles of Advertising	3.0 Units
BUS 142	Principles of Selling	3.0 Units
BUS 190	Principles of Electronic Commerce	3.0 Units
BUS 211	Business Law	3.0 Units
Total		21.0 Units

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CHEMISTRY PROGRAM DESCRIPTION

Chemistry is the science that investigates the composition and properties of substances and elementary forms of matter. The Chemistry program serves several areas of study: it meets the science requirement for non-majors, and it meets the requirements for chemistry, physical science, technology, biochemistry and biology majors. The following are some of the many career options available for the chemistry major. A few of these require an associate degree; most require a baccalaureate degree and some require a graduate-level degree: high school or college teacher, pharmaceutical chemist, analytical chemist, food chemist, air-quality control, water-quality control, soil scientist, and oceanographer.

The chemistry program offers the following tracks:

- Chemistry 110, Introductory Chemistry (meets the science requirement for non-majors)
- Chemistry 151, General Preparatory Chemistry (meets the science requirement for non-majors and serves as a preparatory course for Chemistry 201)
- Chemistry 201-202, General Chemistry (for chemistry, science and technology majors.)
- Chemistry 221, Quantitative Analysis
- Chemistry 255-256, Organic Chemistry (for chemistry, biochemistry and biology majors.)

DEGREE REQUIREMENTS

The major requirement for an associate degree in Biological and Physical science may be met by completing any 18 units of science classes. Students planning to transfer should major in general education and include classes required by the transfer institution.

CINEMA PROGRAM DESCRIPTION

Courses in cinema provide a broad survey of the history, theory, techniques, and development of motion pictures. The history of film as an aesthetic form and its major artists, works and styles are emphasized.

DEGREE REQUIREMENTS

An associate degree is not available in cinema. Students wishing the associate degree should major in general education and include those classes required by the transfer institution.

* Associate Degree Program

COMMUNICATION STUDIES PROGRAM DESCRIPTION

Courses in communication studies focus on the ways in which verbal and nonverbal communication impacts the meaning of messages within different contexts. Coursework emphasizes the development of both effective communication practices and the skills to analyze communications. The addition of telecommunications, new technologies and diversity awareness necessitates individuals who can think critically and communicate effectively in a variety of settings. The department prepares students to identify and meet these demands and challenges within individual, small group and larger settings. Coursework in communication studies provides a foundation for success in all disciplines.

DEGREE REQUIREMENTS

An associate degree is not available in communication studies since this is considered to be a transfer major. Students wishing the A.A. degree should major in general education and include those classes required by the transfer institution. Students not wishing to transfer may also major in social science.

COMPUTER ELECTRONICS See Computer Networking

***COMPUTER INFORMATION TECHNOLOGY PROGRAM DESCRIPTION**

The Computer Information Technology (CIT) Department specializes in providing state-of-the-art education in computer literacy, computer software applications, Internet and Web technologies, e-commerce, and vocationally oriented job-training courses.

The comprehensive range of courses include Computer Fundamentals, Keyboarding and Document Processing, Microsoft Windows, Microsoft Office (Word, Excel, Access and PowerPoint), Business Communications, QuickBooks, Photoshop, Web Site Development, Web Site Authoring Tools, Principles of E-Commerce, and more.

An associate degree in Computer Information Technology is offered as well as various certificates in computer information technology and web technologies. The department is also an authorized testing center for Microsoft certification in all the Microsoft Office Suite programs (Word, Excel, Access and PowerPoint). The MOUS (Microsoft Office User Specialist) certification

Degree Curricula and Certificate Programs

provides an outstanding opportunity for students to present to prospective employers a globally recognized certificate representing high-level skills and achievement. The CIT programs provide the training and exposure that is essential to prospective computer users and office workers at all levels. Excellent career opportunities exist for students in the expanding field of information technology.

CERTIFICATE PROGRAMS

Administrative Assistant Certificate

The Administrative Assistant Certificate is designed to provide a working knowledge of office systems and procedures and advanced-level computer skills required for a successful career or employment in an office or business environment.

CIT 101	Computer Fundamentals	3 units
CIT 140	Microsoft Office	3 units
CIT 110	Keyboarding and Document Processing	3 units
CIT 105	Microsoft Windows	3 units
CIT 150	Microsoft Word I	3 units
CIT 115	Business Communications	3 units
CIT 155	Microsoft Excel I	3 units
CIT 120	Office Procedures	3 units
	Total	24 units

Computer Applications Certificate

The Computer Applications Certificate is designed to provide a solid foundation in state-of-the-art, highly marketable business software used in industry today. These advanced-level computer skills are required for a successful career in the high-tech world.

CIT 135	The Internet	3 units
CIT 165	Microsoft PowerPoint	3 units
CIT 160	Microsoft Access I	3 units
CIT 110	Keyboarding and Document Processing	3 units
CIT 105	Microsoft Windows	3 units
CIT 150	Microsoft Word I	3 units
CIT 155	Microsoft Excel I	3 units
CIT 166	Desktop Publishing	3 units
	Total	24 units

The MOUS (Microsoft Office User Specialist) Certificate is awarded by Microsoft through the department after completion of courses and successful testing of skills from the Microsoft Office Suite programs.

The Computer Information Technology department was formerly called Business Information Technology. The following chart compares previous course numbers and titles to current offerings.

* Associate Degree Program

Degree Curricula and Certificate Programs

*COMPUTER NETWORKING PROGRAM DESCRIPTION

Computer networking involves the study, understanding, and application of basic and advanced personal computer hardware and software concepts. Computer networking includes such areas as Cisco router configuration, Category 5 cabling techniques and troubleshooting algorithms, installation and troubleshooting of PC networks and hardware, to name a few. The Computer networking program has the following four options open to students: a two-year occupation program leading to an associate degree, a 22-unit program leading to a College certificate in Cisco router configuration, a 27.5 unit program leading to a college MCSE certificate, or a 27.5-unit program leading to an associate degree. All four options include core curriculum and study that will lead to a College certificate in A+ hardware proficiency.

CERTIFICATE OF ACHIEVEMENT

The purpose of a certificate program is to provide the student with personal and technical competence in a specific occupational area. Upon successful completion (grade C or better) of the certificate core of courses, the student is believed to possess entry-level competencies.

CORE REQUIREMENT (all options)

CMPN130	Computer Electronics I	4.0 units
CMPN137	A+ Certification I	2.0 units
CMPN138	A+ Certification II	2.0 units
CMPN154	Cisco System Comp Networking 1	3.5 units
	Total	11.5 units

CISCO (CCNA)

CMPN155	Cisco System Comp Networking 2	3.5 units
CMPN156	Cisco System Comp Networking 3	3.5 units
CMPN157	Cisco System Comp Networking 4	3.5 units
	Plus Core	11.5 units
	Major Total	22.0 units

MCSE (Windows NT)

CMPN142	Networking Essentials	1.5 units
CMPN143	Implementing & Supporting MS Windows NT Workstation 4.0	2.0 units
CMPN144	Implementing & Supporting MS Win NT Server 4.0	2.0 units
CMPN145	MCSE Exchange Server	2.0 Units
CMPN146	MS Windows NT Server-Enterprise Technology	2.0 Units
CMPN147	MCSE System Administration of MS SQL Server	2.0 Units
CMPN148	MCSE Internetworking with MS TCP/IP On WinNt 4.0	2.0 Units
CMPN149	MCSE Internet Information Server on WinNT 4.0	2.0 Units
	Plus Core	11.5 units
	Major Total	27.0 units

MCSE (WIN 2000)

CMPN180	Windows 2000 Server	2 units
CMPN181	Windows 2000 Professional	2 units
CMPN182	Windows 2000 Directory Services	2 units
CMPN183	Windows 2000 Network Infrastructure	2 units
	Total (+11.5 from core)	19.5 units

DEGREE REQUIREMENTS

In addition to the degree requirements listed above, students must also complete the College of the Canyons associate degree general education requirements.

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*COMPUTER SCIENCE PROGRAM DESCRIPTION

Computer science is a program dealing with the problems in organizing, representing, manipulating and presenting information in an automatic processing environment. Computerized information systems are being developed and used in almost every field where information must be processed. The goal of the computer science program is to provide understanding of the functions of the modern computer and operational skills in data entry and programming. The following is a sample of the many career options available for the computer science major. A few require an associate degree, most require baccalaureate degrees and some require a graduate degree: programmer, computer hardware specialist, database specialist, computer operator, systems analyst, programmer analyst, software engineer, computer engineer, teacher.

DEGREE REQUIREMENTS

CMPSCI 111	Introduction to Algorithms and Programming/Java	3.0 Units
CMPSCI 111L	Introduction to Algorithms and Programming Lab	1.0 Unit
CMPSCI 182	Data Structures and Program Design	3.0 Units
CMPSCI 182L	Data Structures and Program Design Lab	1.0 Unit
CMPSCI 122	Introduction to Digital Computers	3.0 Units
CMPSCI 222	Computer Organization	3.0 Units
	OR	
CMPSCI 235	C Programming	3.0 Units
CMPSCI 232	Concepts of Programming languages	3.0 Units
	OR	
CMPSCI 236	C++ Object-Oriented Programming	3.0 Units
CMPSCI 282	Advanced Data Structures	3.0 Units
MATH 211	Calculus I	5.0 Units

MATH 212*	Calculus II	5.0 Units
MATH 214*	Linear Algebra	3.0 Units
PHILOS 230	Symbolic Logic	3.0 Units
	OR	
3 additional units in computer science		3.0 Units

*Non-transfer students may complete 8 units of additional computer science course work.

Total Units for Major 36.0 Units

DANCE PROGRAM DESCRIPTION

The dance program introduces students to a variety of dance techniques that include Fundamentals of Dance, Beginning and Intermediate Ballet, Modern Dance, Beginning and Intermediate Jazz, World Dance, African Dance, Ballroom and Social Dance, Introduction to Tap Dance, Dance Concert Ensemble, Introduction to Choreography, and Introduction to Yoga. There are numerous opportunities for students of all levels and interests to perform by enrolling in the dance rehearsal and performance class or participating in one of the performing groups. Many dance courses also meet general-education requirements in the arts, humanities, and physical-education categories.

DEGREE REQUIREMENTS

An associate degree is not available in dance. Students wishing the associate degree should major in general education and include those courses required by the transfer institution.

*DESIGN ARTS AND TECHNOLOGY PROGRAM DESCRIPTION

The Design Arts and Technology Department (DAT) offers courses, certificates and/or degrees in the disciplines of animation, architectural drafting, computer aided drafting/design (CADD), graphic design, interior design, mechanical drafting and multimedia. The DAT program offers foundation and advanced courses in design principles, design history, applied color, material selections, visual communication and presentation techniques. The best selection of visual expression, whether hand- or computer-generated, will be emphasized to accurately communicate design concepts.

* Associate Degree Program

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CERTIFICATE OF ACHIEVEMENT

Architectural Drafting

DAT 162A	History of Architecture and Furnishings I	3.0 Units
DAT 162B	History of Architecture and Furnishings II	3.0 Units
DAT 163	Architectural Drafting I	3.0 Units
DAT 262	Architectural Drafting II	3.0 Units
DAT 263	Space Planning	3.0 Units
DAT 264	AutoCAD for Architecture & Interior Design	3.0 Units
DAT 265	Advanced CADD for Architecture and Interior Design	3.0 Units

Plus nine units from:

DAT 100A	Intro to Design Technology I	1.0 Unit
DAT 100B	Introduction to Design Technology II	1.0 Unit
DAT 100C	Introduction to Design Technology III	1.0 Unit
DAT 101	Survey of Design Arts Technology	3.0 Units
DAT 184	Introduction to Animation	3.0 Units
DAT 187	Introduction to 3D Studio Max Animation	3.0 Units
DAT 282	Advanced AutoCAD (2D)	3.0 Units
DAT 283	Advanced AutoCAD - 3D	3.0 Units
DAT 286	Fundamentals of AutoLISP & AutoCAD	3.0 Units

Customization

DAT 287	Advanced 3D Studio Max – Animation	3.0 Units
	Total units	30.0 Units

CERTIFICATE OF ACHIEVEMENT

Computer-Aided Drafting/Design (CADD)

DAT 151	AutoCAD for Mechanical Drafting	3.0 Units
DAT 252	Mechanical Drafting II	3.0 Units
	OR	
DAT 264	AutoCAD for Architecture & Interior Design	3.0 Units
DAT 265	Advanced CADD for Architecture and Interior Design	3.0 Units
	OR	
DAT 282	Advanced AutoCAD (2D)	3.0 Units
DAT 283	Advanced AutoCAD - 3D	3.0 Units

Plus twelve units from:

DAT 100A	Intro to Design Technology I	1.0 Unit
DAT 100B	Introduction to Design Technology II	1.0 Unit
DAT 100C	Introduction to Design Technology III	1.0 Unit
DAT 101	Survey of Design Arts Technology	3.0 Units
DAT 184	Introduction to Animation	3.0 Units
DAT 187	Introduction to 3D Studio Max Animation	3.0 Units
DAT 282	Advanced AutoCAD (2D)	3.0 Units
DAT 283	Advanced AutoCAD - 3D	3.0 Units
DAT 286	Fundamentals of AutoLISP & AutoCAD	3.0 Units

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Customization

DAT 287	Advanced 3D Studio Max – Animation	3.0 Units	DAT 151	AutoCAD for Mechanical Drafting	3.0 Units
	Total units	24.0 Units	DAT 252	Mechanical Drafting II	3.0 Units
			DAT 253	Solids Modeling for Mechanical Drafting	3.0 Units

CERTIFICATE OF ACHIEVEMENT

Interior Design

DAT 060	Careers in Interior Design	1.0 Unit	MFGT 102	Engineering Drawing Interpretation	3.0 Units
				Plus nine units from	
DAT 061	Art and Accessories in Interior Design	1.0 Unit	DAT 100A	Intro to Design Technology I	1.0 Unit
DAT 062	Merchandising in Interior Design	1.0 Unit	DAT 100B	Introduction to Design Technology II	1.0 Unit
DAT 102	Applied Color for Designers	3.0 Units	DAT 100C	Introduction to Design Technology III	1.0 Unit
DAT 104	Rapid Visualization & Illustration	3.0 Units	DAT 101	Survey of Design Arts Technology	3.0 Units
DAT 160	Fundamentals of Interior Design	3.0 Units	DAT 184	Introduction to Animation	3.0 Units
DAT 161	Interior Materials and Products	3.0 Units	DAT 187	Introduction to 3D Studio Max Animation	3.0 Units
DAT 162A	History of Architecture and Furnishings I	3.0 Units	DAT 282	Advanced AutoCAD (2D)	3.0 Units
DAT 162B	History of Architecture and Furnishings II	3.0 Units	DAT 283	Advanced AutoCAD - 3D	3.0 Units
DAT 163	Architectural Drafting I	3.0 Units	DAT 286	Fundamentals of AutoLISP & AutoCAD	3.0 Units
DAT 263	Space Planning	3.0 Units			
DAT 264	AutoCAD for Architecture & Interior Design	3.0 Units		Customization	
DAT 266	Advanced Interior Design Studio	3.0 Units	DAT 287	Advanced 3D Studio Max – Animation	3.0 Units
DAT 295	Professional Practices	3.0 Units		Total units	24.0 Units
	Total Units	36.0 Units			

CERTIFICATE OF ACHIEVEMENT

Mechanical Drafting

DAT 150	Introduction to Mechanical Drafting and AutoCAD	3.0 Units	DAT 100A	Intro to Design Technology I	1.0 Unit
			DAT 100B	Introduction to Design Technology II	1.0 Unit

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DAT 100C	Introduction to Design Technology III	1.0 Unit
DAT 101	Survey of Design Arts Technology	3.0 Units
DAT 102	Applied Color for Designers	3.0 Units
DAT 104	Rapid Visualization & Illustration	3.0 Units
DAT 105	Digital Photography I	3.0 Units
DAT 140	Visual Design	3.0 Units
DAT 173	Audio and Motion Graphics	3.0 Units
DAT 175	Multimedia Production	3.0 Units
DAT 275	Multimedia Production II	3.0 Units
DAT 279	Multimedia Portfolio	3.0 Units
DAT 295	Professional Practices	3.0 Units
	Total units	33.0 Units

DEGREE REQUIREMENTS

Classes required for the certificate can also be used to satisfy the major requirements for the associate degree (with the exception of Multimedia and Graphic Design.) Associate degrees are not available in Multimedia and Graphic Design at this time.

For remaining general-education requirements, major courses and unit requirements, consult this catalog and/or a counselor.

For emphasis in Broadcast add the following courses:

RTVF 100	Media & the Society	3.0 Units
RTVF 115	Writing for Broadcast	3.0 Units

For emphasis in Business add the following courses:

BUS 100	Introduction to Business	3.0 Units
BUS 140	Principles of Marketing	3.0 Units

For emphasis in Communications add the following courses:

JOURN 100	Media & the Society	3.0 Units
COMS 105	Speech Fundamentals	3.0 Units

For emphasis in Music add the following courses:

MUSIC 100	Fundamentals of Music	3.0 Units
MUSIC 105	Understanding Music	3.0 Units

Note: Many classes have a prerequisite or co-requisite; students should check with the current college catalog or their counselor before enrolling.

Students are required to file a certificate petition with the Counseling Office before certificate is issued.

* Associate Degree Program

ECONOMICS

PROGRAM DESCRIPTION

Economics is a social science that studies the production, consumption and distribution of goods and services. Economic study attempts to clarify how the use of natural, technical, and financial resources affects the lives of human beings. Economic concerns can range from how individuals make decisions, the roles of government and the Federal Reserve to the complex world of international trade. Economic theories are examined and applied to the modern economic world. Topics of specialization include macroeconomics, the overview of the U.S. economy; microeconomics, how businesses make decisions; business statistics, using numbers for analysis, and U.S. economic history, the economic development of the U.S., and consumer economics, how consumers make choices.

DEGREE REQUIREMENTS

An associate degree is not available in economics since this is considered to be a transfer major. Students wishing the A.A. degree should major in general education and include classes required by the transfer institution. Students not wishing to transfer may major in social science.

*ENGINEERING

PROGRAM DESCRIPTION

The Engineering program provides curriculum concerned with the fundamentals of mechanics, electrical theory, and materials that can be applied to all disciplines within engineering. The program also concentrates on helping students develop critical-thinking skills, a creative imagination, and excellent communication skills to effectively function in the professional environment. These requirements were chosen to optimize the student's preparations for upper-division coursework for bachelor of science degrees in any field of engineering offered by four-year institutions. Since the coursework in engineering is sequential, students may spend less time earning an associate of science degree and/or bachelor of science degree by deferring some general-education requirements until their junior and senior years, giving priority to requirements for the engineering major. To facilitate student application and retention of course material, a cooperative-education program has been developed, that will allow selected students to participate in paid internships in specific areas of engineering.

DEGREE REQUIREMENTS

The requirements for the associate degree in engineering may be met by completing the courses in the engineering major listed below plus 8 units of physics.

Students wishing to transfer should complete those courses required by the particular transfer institution.

Courses in Engineering Major

ENGR 101	Introduction to Engineering	2.0 Units
ENGR 151	Materials of Engineering	3.0 Units
ENGR 152	Statics	3.0 Units
ENGR 153	Electronic Circuits	4.0 Units
	Subtotal	12 Units

Core/General-Education Courses

CHEM 201	General Chemistry I	6.0 Units
CMPSCI 111	Introduction to Algorithms	3.0 Units
CMPSCI 111L	Programming Lab	1.0 Unit
MATH 211	Calculus I	5.0 Units
MATH 212	Calculus II	5.0 Units
MATH 213	Calculus III	5.0 Units
MATH 215	Differential Equations	3.0 Units
PHYS 220	Mechanics of Solids and Fluids	4.0 Units
PHYS 221	Electricity and Magnetism	4.0 Units
	Subtotal	36 Units
	Total	48 Units

*ENGLISH

PROGRAM DESCRIPTION

The English Department provides a variety of courses that focus on the development of language skills and, the study of literature. Language-skills courses focus on specific problem areas in which the student needs developmental work: reading, spelling, grammar (sentence skills), writing, study skills and listening/note-taking. Composition and intermediate composition are important courses for transfer students who will face

Degree Curricula and Certificate Programs

complex writing assignments at four-year institutions. The scope of the literature program includes British, American, Bible, and world literature. The study of literature exposes students to a major source of cultural enrichment.

DEGREE REQUIREMENTS

The major for an associate degree in English can be met by completing:

Six units from:

ENGL101	English Composition & Literature	3.0 Units
ENGL101H	Honors English Composition & Literature	4.0 Units
ENGL 102	Intermediate Composition, Literature & Critical Thinking	3.0 Units
ENGL 103	Critical Reading, Writing & Thinking	3.0 Units

Three units from:

ENGL250	British Literature I	3.0 Units
ENGL 251	British Literature II	3.0 Units

Three units from:

ENGL260	American Literature I	3.0 Units
ENGL 261	American Literature II	3.0 Units

And six additional units from:

ENGL 105	Creative Writing	3.0 Units
ENGL 106	Creative Writing – Nonfiction	3.0 Units
ENGL 135	Literature and Film	3.0 Units
ENGL250	British Literature I	3.0 Units
ENGL 251	British Literature II	3.0 Units
ENGL260	American Literature I	3.0 Units
ENGL 261	American Literature II	3.0 Units
ENGL 263	Introduction to Poetry	3.0 Units

ENGL 264	Study of Fiction	3.0 Units
ENGL 265	Introduction to Drama	3.0 Units
ENGL 271	Mythology	3.0 Units
ENGL 273	World Literature I	3.0 Units
ENGL 274	World Literature II	3.0 Units
ENGL 275	Shakespeare	3.0 Units
ENGL 280	Women's Literature	3.0 Units
HUMAN 105	Cultural Eras in Humanities I	3.0 Units
HUMAN 106	Cultural Eras in Humanities II	3.0 Units
	Total	18 units

ENGLISH AS A SECOND LANGUAGE PROGRAM DESCRIPTION

The ESL program offers beginning, intermediate and advanced-level courses aimed at preparing students for college-level work. Two separate but interrelated tracks are offered: ESL 040-105 are designed to develop the reading, writing, and grammar skills of students. ESL 071-081 focus on building learners' listening and speaking skills.

*ENVIRONMENTAL CONTROL PROGRAM DESCRIPTION

Environmental control is the study of water treatment and distribution processes as well as wastewater treatment and disposal. The program is designed to prepare students seeking a career in the water-treatment industry. The environmental control program also provides instruction for water personnel interested in career advancement. Coursework will help prepare students for various certification examinations given by the State of California Department of Health. Courses within this program include the following: Waste Treatment Plant Operator, Sewage Disposal Worker, Water Treatment Plant Operator, and Health and Safety Inspector, to name a few.

* Associate Degree Program

Degree Curricula and Certificate Programs

DEGREE REQUIREMENTS

The major for an associate degree in environmental control can be met by completing any 18 units of environmental control courses.

*FAMILY STUDIES AND EARLY CHILDHOOD EDUCATION PROGRAM DESCRIPTION

The early childhood education major includes core courses in child development and electives in other departments. The purposes include: educating students in the development of the young child; preparing candidates for child development permits (awarded by the California Commission of Teacher Preparation and Licensing, Child Development Division); providing a basis for further study (transfer) and preparation of teacher candidates; and preparing students for work with children in a variety of community settings.

Foster and kinship care education addresses current child-welfare issues and is coupled with ongoing classes in behavior management, attachment and separation, how fostering impacts the family, and working with birth families. A local advisory committee helps determine times, locations, and topics that will be offered. Certificates are given to participants who complete the classes. The classes are designed so that foster-care providers can meet state and county training requirements.

CERTIFICATE PROGRAM

The child development program offers courses leading to a core certificate that meets State of California minimum requirements to teach in a preschool, as well as several child development program certificates that are suggested for teaching positions in a variety of programs and can reflect the student's interest in specialized areas such as preschool teaching, infant/toddler development and curriculum, school-age child care and curriculum, special education and supervision, and administration of children's programs. Program certificate coursework assists students in meeting the California Child Development Permit requirements. The Child Development Permit is awarded by the state Commission of Teacher Preparation and Licensing and is required by teachers in such funded programs as children's centers and Head Start programs.

NOTE: A grade of C or better is required in all courses for all certificates.

CORE CERTIFICATE

CHLDEV 110	Introduction to Early Childhood	3.0 Units
CHLDEV 115	Curriculum Development & Classroom	3.0 Units
CHLDEV 116A	Curriculum Development/ Classroom Management Lab A	1.0 Unit
CHLDEV 120	Child Growth & Development	3.0 Units
CHLDEV 125	Child, Family & Community	3.0 Units
CHLDEV 175	Health Concerns and First Aid in Early Childhood	1.0 Unit
	Total	14.0 Units

PROGRAM CERTIFICATES WITH EMPHASIS IN: Preschool

CORE CERTIFICATE (14 units) plus

CHLDEV 116B	Curriculum Development/ Classroom Management Lab B	1.0 Unit
CHLDEV 116C	Curriculum Development/ Classroom Management Lab C	1.0 Unit
CHLDEV 144	Music & Motor Development for the Young Child	2.0 Units
CHLDEV 151	Art & Creativity for Young Children	2.0 Units
CHLDEV 155	Science & Math for the Young Child	2.0 Units
CHLDEV 156	Literature & Language Development for the Young Child	2.0 Units
CHLDEV 173	Childhood Nutrition	2.0 Units
	Total	26.0 Units

* Associate Degree Program

Degree Curricula and Certificate Programs

Supervision & Administration of Children's Programs

PRESCHOOL PROGRAM CERTIFICATE (26 units)
plus

CHLDEV 201	Supervision and Administration of Children's Programs	3.0 Units
CHLDEV 202	Advanced Supervision and Administration	3.0 Units
	Total	32.0 Units

Infant/Toddler

CORE CERTIFICATE (14 units) plus

CHLDEV 116B	Curriculum Development/ Classroom Management Lab B	1.0 Unit
CHLDEV 116C	Curriculum Development/ Classroom Management Lab C	1.0 Unit
CHLDEV 130	Infant/Toddler Development & Curriculum	3.0 Units
CHLDEV 173	Childhood Nutrition	2.0 Units
Plus four units from:		
CHLDEV 144	Music & Motor Development for the Young Child	2.0 Units
OR		
CHLDEV 151	Art & Creativity for Young Children	2.0 Units
CHLDEV 155	Science & Math for the Young Child	2.0 Units
OR		
CHLDEV 156	Literature & Language Development for The Young Child	2.0 Units
	Total	25.0 Units

School Age

CORE CERTIFICATE (14 units) plus

CHLDEV 116B	Curriculum Development/ Classroom Management Lab B	1.0 Unit
CHLDEV 116C	Curriculum Development/ Classroom Management Lab C	1.0 Unit
CHLDEV 135	School Age Childcare Programs & Curriculum	3.0 Units
CHLDEV 140	Recreational Leadership in School Age Programs	3.0 Units
CHLDEV 173	Childhood Nutrition	2.0 Units
CHLDEV 201	Supervision and Administration of Children's Programs	3.0 Units
	Total	27.0 Units

Special Education

PRESCHOOL PROGRAM CERTIFICATE (26 units)
plus

CHLDEV 130	Infant/Toddler Development & Curriculum	3.0 Units
CHLDEV 160	Understanding & Education of Exceptional Children	3.0 Units
	Total	32.0 Units

STUDENTS ARE REQUIRED TO FILE A CERTIFICATE PETITION WITH COUNSELING OFFICE.

CHILD DEVELOPMENT PERMIT

This Permit is awarded by the State Commission for Teacher Preparation and Licensing and is required by teachers in funded programs such as school district children's centers and Head Start Programs.

DEGREE REQUIREMENTS

24 units in the major including the 14 core units

CHLDEV 110	Introduction to Early Childhood Education	3.0 Units
CHLDEV 115	Curriculum and Class Management	3.0 Units

* Associate Degree Program

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CHLDEV 120	Child Growth and Development	3.0 Units
CHLDEV 125	Child, Family and Community	3.0 Units
CHLDEV 175	Health Concerns and First Aid in Early Childhood	1.0 Unit
CHLDEV 116A	Curriculum Development/ Classroom Management Lab A	1.0 Unit
	Total	14 Units
Plus 10 units from		
CHLDEV 116B	Curriculum Development/ Classroom Management Lab B	1.0 Unit
CHLDEV 116C	Curriculum Development/ Classroom Management Lab C	1.0 Unit
CHLDEV 130	Infant/Toddler Development & Curriculum	3.0 Units
CHLDEV 140	Recreational Leadership in School-Age Programs	3.0 Units
CHLDEV 151	Art & Creativity for Young Children	2.0 Units
CHLDEV 155	Science & Math for the Young Child	2.0 Units
CHLDEV 156	Literature & Language Development for the Young Child	2.0 Units
CHLDEV 160	Understanding & Education of Exceptional Children	3.0 Units
CHLDEV 165	Teaching Children in a Diverse Community	3.0 Units
CHLDEV 173	Childhood Nutrition	2.0 Units
CHLDEV 198	Current Issues in Parenting	1.0 Unit
CHLDEV 201	Supervision and Administration of Children's Programs	3.0 Units

CHLDEV 202	Advanced Supervision and Administration of Children's Program	3.0 Units
CHLDEV 225	Mentor Teacher Seminar	0.5 Unit
CHLDEV 226	The Impact of Violence on Children	3.0 Units
CHLDEV 227	Violence-Intervention Strategies	3.0 Units

MENTOR TEACHER

The Early Childhood Mentor Teacher Program links remuneration with better access to education and professional-development opportunities. The program recruits teachers who have worked at least two years in the classroom or family day-care home and who have completed a supervised teaching course as part of their early childhood educational background. Candidates take CD 220, Supervising the Adult Learner, and upon completion of the course submit an application and self-evaluation of their classroom (using one of the Harnes & Clifford scales). A selection committee reviews all applications and evaluates the candidate's classrooms. After selection as a mentor teacher, practicum students may elect placement in the mentor teacher's classroom. Stipends are paid to mentor teachers.

*FIRE TECHNOLOGY PROGRAM DESCRIPTION

The Fire Technology program is made up of courses conforming to the recommended Uniform Fire Technology Curriculum of the California Community College system. Students have the opportunity for skill development in a variety of classroom settings that include field trips, demonstrations, and scenarios focusing on practical applications of lessons learned.

* The fire-service professional is a person who has completed a *recognized Firefighter I Academy* and is currently employed by an *agency providing fire service protection*. Examples of fire-service professionals may include volunteer firefighters, call firefighters, and full-time paid firefighters. Examples of fire-service agencies include city, county, state, and federal agencies as well as some private agencies such as Warner Brothers Studio's Fire Department.

* Associate Degree Program

Degree Curricula and Certificate Programs

DEGREE REQUIREMENTS

Pre-Service

CORE COURSES

FIRETC 101	Fire Protection Organization	3 Units
FIRETC 102	Fire Protection	3 Units
FIRETC 103	Fire Protection Equipment and Systems	3 Units
FIRETC 104	Building Construction for the Fire Service	3 Units
FIRETC 105	Fire Behavior and Combustion	3 Units

Plus

Emergency Medical Technician	7 Units
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Or

Elective Courses

FIRETC 123	Fire Investigation	3 Units
FIRETC 108	Fire Service Hydraulics	3 Units
FIRETC 125	Firefighting Tactics and Strategy	3 Units
FIRETC 106	Organization and Management	3 Units
FIRETC 110	Wildland Fire Behavior	3 Units
FIRETC 107	Apparatus and Equipment	3 Units
	Total	30 Units

In-Service

CORE COURSES

FIRETC 102	Fire Prevention	3 Units
FIRETC 103	Fire Protection Equipment and Systems	3 Units
FIRETC 104	Building Construction for the Fire Service	3 Units

And

Electives

FIRETC 231A	Prevention Officer 1A	2 Units
FIRETC 231B	Prevention Officer 1B	2 Units
FIRETC 241A	Instructor 1A	2 Units
FIRETC 241B	Instructor 1B	2 Units
FIRETC 251A	Investigation 1A	2 Units
FIRETC 261	Management 1	2 Units
FIRETC 271A	Command 1A	2 Units
FIRETC 271B	Command 1B	2 Units
FIRETC 201	Incident Command System 200	1 Unit
FIRETC 202	Incident Command System 300	1.5 Units
FIRETC 198	In-Service Training	3 Units
FIRETC 198A	I-400 Advanced ICS	1 Unit
FIRETC 198B	S-205 Fire Operations	2 Units
FIRETC 198C	S-234 Ignition Operations	1.5 Units
FIRETC 198D	S-270 Basic Air Operations	1 Unit
FIRETC 198E	S-281 Supervisory Techniques	1 Unit
FIRETC 123	Fire Investigation	3 Units
FIRETC 108	Fire Service Hydraulics	3 Units
FIRETC 125	Firefighting Tactics and Strategy	3 Units
FIRETC 106	Organization and Management	3 Units
FIRETC 127	Records and Reports	3 Units
FIRETC 124	Codes and Ordinances	3 Units
FIRETC 107	Apparatus and Equipment	3 Units
FIRETC 112	Wildland Control	3 Units
FIRETC 111	Hazardous Materials 1	3 Units
	Total	30 Units

* Associate Degree Program

Degree Curricula and Certificate Programs

Pre-Service Certificate

CORE COURSES

FIRETC 101	Fire Protection Organization	3.0 Units
FIRETC 102	Fire Prevention	3.0 Units
FIRETC 103	Fire Protection Equipment and Systems	3.0 Units
FIRETC 104	Building Construction for the Fire Service	3.0 Units
FIRETC 105	Fire Behavior and Combustion	3.0 Units

PLUS

HLHSCI 151	Emergency Medical Technician I	7 Units
	Total with EMT	22 Units

OR

In the event the EMT requirement is waived, two electives from the Fire Technology Program are required:

	Fire Technology Elective Courses	6 Units
	Total without EMT	21 Units

In-Service Certificate

OFFICER COURSES

FIRETC 231A	Prevention Officer 1A	2 Units
FIRETC 231B	Prevention Officer 1B	2 Units
FIRETC 241A	Instructor 1A	2 Units
FIRETC 241B	Instructor 1B	2 Units
FIRETC 251A	Investigation 1A	2 Units
FIRETC 261	Management 1	2 Units
FIRETC 271A	Command 1A	2 Units
FIRETC 271B	Command 1B	2 Units
FIRETC 201	Incident Command System 200	1 Unit
FIRETC 202	Incident Command System 300	1.5 Units
	Total	18.5 Units

*FOREIGN LANGUAGES

The Department of Foreign Languages offers courses in French, German and Spanish. Foreign-language studies provide the student with a foundation in written communication and comprehension skills of the language.

From a vocational standpoint, the program provides skills useful in translation and interpretation, business, commerce and foreign language-based research.

Foreign-language studies include numerous opportunities for students to enhance language skills and intercultural awareness through activities such as conversation groups, cultural excursions, poetry readings, and foreign film festivals.

An Intensive Spanish Institute is offered through the Foreign Language Program. The institute offers a total-immersion program in language instruction and cultural workshops, and it hosts numerous faculty lectures and performances related to Spain and Latin America.

Students may earn up to 3.5 units of degree-applicable credit during the five-day program. The program is ideal for teachers who need a second language requirement, nurses and emergency service personnel, students who want an in-depth language and cultural experience, and community members interested in Spanish language and culture.

DEGREE REQUIREMENTS

The major requirements for an associate degree in foreign languages may be met by completing 18 course units from the foreign-language curriculum.

FRENCH (See Foreign Languages)

GEOGRAPHY PROGRAM DESCRIPTION

Geography is a vast discipline and a science that describes and explains all of the earth's surface physical and cultural phenomena and whatever affects the earth's surface phenomena, i.e., sun's rays, moon's gravity, etc.; the study and understanding of much of the natural and cultural setting of humankind.

The geography/geology program provides a strong foundation in physical sciences. Students will be introduced to the fundamentals of physical and cultural geography, and physical and historical geology. The emphasis is on the geologic processes that produced

* Associate Degree Program

Degree Curricula and Certificate Programs

the features of the earth's crust and studies in California geology, national parks, minerals, fossils, and rocks.

Courses that provide a foundation in Geography include Physical Geography 101 (earth's natural environmental setting) and Cultural Geography 102 (key cultures of the world), with continuing emphasis on either additional environmental courses (Geology, etc.), or additional related Social Science courses (History, Latin American Studies, etc.).

DEGREE REQUIREMENTS

The major requirement for an associate degree in Biological and Physical Science may be met by completing any 18 units of science classes. Students planning to transfer should major in general education and include classes required by the transfer institution.
CSU:UC

GEOLOGY PROGRAM DESCRIPTION

Geology is a science that explains the origin, evolution and continuing existence of the earth's crust, crustal materials (minerals, rocks, fossils, petroleum, etc.) and landforms of the crust (volcanoes, faults, mountains, etc.). It includes the study of three major geologic processes: igneous (volcanic, granite, etc.), sedimentary (moving water, ice and wind), and deformation (folding, faulting, mountain-making, etc.), which almost totally influence the crust and provide the foundation and environment for all living and non-living phenomena.

Through introductions to the fundamentals of physical and historical geology, with emphasis on geologic processes that produced the features of the earth's crust and studies in California geology, national parks, minerals, fossils and rocks, the geology program provides a strong foundation for students wishing to transfer to the CSU or UC systems.

DEGREE REQUIREMENTS

The major requirement for an associate degree in Biological and Physical Science may be met by completing any 18 units of science classes. Students planning to transfer should major in general education and include classes required by the transfer institution.

GERMAN (See Foreign Languages)

HEALTH SCIENCES (See Nursing)

*HISTORY PROGRAM DESCRIPTION

In a broad sense, history is the study and record of all human experience. It examines people, institutions, ideas and events through the past, develops cultural literacy, critical thinking and other useful skills while helping to plan for the future. By having knowledge of the origins and people of the past we are able to obtain a better understanding of ourselves as individuals and as a society.

History provides a solid fundamental preparation for careers in business, industry, government and education. It also serves as preparation for law school, foreign service, international work, urban affairs and library science.

DEGREE REQUIREMENTS

HIST 101	Western Civilization: Pre-Industrial West	3.0 Units
HIST 102	Western Civilization: The Modern Era	3.0 Units
HIST 111	United States History I	3.0 Units
HIST 112	United States History II	3.0 Units
Plus one of the following		
HIST 191	History Eastern Civilization I	3.0 Units
OR		
HIST 192	History Eastern Civilization II	3.0 Units
OR		
HIST 240	Latin American Civilization	3.0 Units

Plus one additional three-unit course from the History curriculum (except HIST 150)

Total 18 units

* Associate Degree Program

Degree Curricula and Certificate Programs

*HOTEL AND RESTAURANT MANAGEMENT PROGRAM DESCRIPTION

The hotel and restaurant management curriculum has been developed with input from hospitality professionals who have designed course offerings that focus on the dynamics changing this fast-paced industry. The primary mission of the curriculum is to provide students with the knowledge and skills necessary to begin and develop careers in the hospitality industry.

Students will take general-education coursework combined with a core of hotel courses that identify the economic, legal, and social forces that shape the hospitality industry. Problem-solving scenarios that reflect the challenges typical among hospitality professionals are highlighted with an emphasis on preparing the skills needed for hospitality management.

HOTEL AND RESTAURANT MANAGEMENT MAJOR OPTIONS:

HRMGT 101	Introduction to the Leisure Industry	3.0 Units
HRMGT 225	Food Service Sanitation & Safety	3.0 Units
HRMGT 245	Hotel & Restaurant Supervision & Guest Relations	3.0 Units

Students have three degree options:

- * Combined Hotel and Restaurant Management major,
- * Restaurant Management major, or
- * Hotel Management major.

Option 1: Combined Hotel & Restaurant Management major will take 9 units from this list of courses in addition to core classes:

HRMGT 202	Hotel & Restaurant Purchasing & Inventory Control	3.0 Units
HRMGT 210	Hotel & Restaurant Law	3.0 Units
HRMGT 235	Hotel & Restaurant Sales & Marketing	3.0 Units
HRMGT 299	Hotel & Restaurant Management Internship	3.0 Units
	Total	21 Units

Option 2: Restaurant Management major will take these courses in addition to core classes:

HRMGT 121	Foods & Nutrition in the Restaurant	3.0 Units
HRMGT 220	Restaurant Operations	3.0 Units

Note: Students will select one elective 3-unit class from the Hotel and Restaurant Management program to complete the degree requirement of 18 units

Option 3: Hotel Management major will take these courses in addition to core classes:

HRMGT 151	Hotel Operations	3.0 Units
HRMGT 152	Front-Office Management	3.0 Units

Note: Students will select one elective 3-unit class from the Hotel and Restaurant Management program to complete the degree requirement of 18 units

DEGREE REQUIREMENTS

For remaining general-education requirements, consult this catalog and/or a counselor.

Students are encouraged to take other HRM courses beyond the 18-unit degree requirement in order to be more competitive in the job market. Students are advised to see a counselor early to identify classes necessary for any of the hospitality-management degrees and general-education requirements for the degree.

HUMANITIES PROGRAM DESCRIPTION

Classes in the humanities offer a broad interdisciplinary education that seeks to render an integrative and critical examination of human achievements in literature, philosophy, and the fine arts. This approach will provide a basis of understanding of different traditions of cultural achievement, and broaden and enrich students' appreciation of human values derived from historical and creative forces as expressed by lasting works of art, literature, and ideas. Courses offered in this curriculum meet general-education and transfer requirements.

* Associate Degree Program

Degree Curricula and Certificate Programs

*INDUSTRIAL TECHNOLOGIES

Students whose occupational goals cross over more than one vocational program may establish an Industrial Technologies Major by accumulating 18 semester units of vocational classes drawn from the following programs:

1. Business Management
2. Computer Information Technology
3. Computer Science
4. Drafting
5. Electronics
6. Hotel and Restaurant Management
7. Mechanical Technology
8. Quality Control
9. Real Estate
10. Transportation
11. Welding

*JOURNALISM PROGRAM DESCRIPTION

This program provides an introduction to journalism and mass media for students interested in careers requiring journalistic training such as newspaper or magazine reporting and production or freelance writing.

Courses cover a range of topics including theory of mass communication, news writing, photojournalism, reporting, media and journalistic ethics, media advertising, and newspaper design and layout. Advanced courses allow students to participate in journalistic production as a member of the staff of the College of the Canyons' newspaper, [The Canyon Call](#).

Journalism Certificate (21 Units)

JOURN 100	Media & The Society	3.0 Units
JOURN 105	News Writing	3.0 Units
JOURN 110	Article Writing	3.0 Units
JOURN 205	Advanced News Reporting & Production	3.0 Units
JOURN 210	Newspaper & Magazine	

* Associate Degree Program

	Production Staff	3.0 Units
PHOTO 160	Photography	3.0 Units
PUBREL 125	Public Relations	3.0 Units
OR		
PUBREL 126	Public Relations Practicum	3.0 Units
Total Units		21.0 Units

Recommended as Electives

CIT 166	Desktop Publishing	3.0 Units
JOURN 215	Editorial Workshop	3.0 Units

Photojournalism Certificate

JOURN 100	Media & The Society	3.0 Units
JOURN 105	News Writing	3.0 Units
PHOTO 160	Photography	3.0 Units
PHOTO 165	Digital Photography I	3.0 Units
PHOTO 260	Photojournalism	3.0 Units

DEGREE REQUIREMENTS

An associate degree is not available in Journalism.

Students wishing the associate degree should major in general education and include those classes required by the transfer institution.

*LIBRARY/MEDIA TECHNOLOGY PROGRAM DESCRIPTION

The Library/Media Technology program is designed to prepare individuals for employment as paraprofessionals in a public school, academic or special library/media center, or in any setting where they may be responsible for the acquisition, organization and retrieval of information. The role of automation and new technologies in accessing information, and acquiring the skills needed to work with people from a variety of backgrounds are important elements throughout the program. Courses in the program provide training in all phases of library/media work, background knowledge of the types of libraries and media centers and their services, and actual work experience. Students completing the program will have a solid foundation to start a career in the library, media, or information world, or to advance their careers in the field.

Degree Curricula and Certificate Programs

CERTIFICATE OF ACHIEVEMENT

The purpose of a certificate program is to provide the student with personal and technical competence in a specific occupational area. Upon successful completion (grade C or better) of the certificate core of courses, the student is believed to possess entry-level competencies.

LMTECH 101	Introduction to Library Services	1.0 Unit
LMTECH 102	Reference Skills & Services	1.0 Unit
LMTECH 103	Library Circulation Systems	1.0 Unit
LMTECH 104	Cataloging	3.0 Units
LMTECH 106	Library Collections: Print	1.0 Unit
LMTECH 107	Library Collections: Non-Print	1.0 Unit
LMTECH 108	Audiovisual Equipment Operation	1.0 Unit
LMTECH 110	Library Internship	2.0 Units
LMTECH 114	Library/Media Supervisory Skills	1.0 Unit
LMTECH 115	Internet in Libraries	1.0 Unit
CIT 140	Microsoft Office	3.0 Units
COMS 256	Intercultural Communication	3.0 Units
	Total	19.0 Units

Suggested elective courses for the A.A. degree

LMTECH 112	School Library/Media Center Services	1.0 Unit
CIT 010	Exploring Computers	1.5 Units
CIT 150	Microsoft Word 2000	3.0 Units
CIT 166	Desktop Publishing	3.0 Units
CIT 170	Web Page Creation	3.0 Units
ENGL 101	English Composition and Literature	3.0 Units

A.A. degree does not include general education requirements.

DEGREE REQUIREMENTS

Classes required for the certificate can also be used to satisfy the 18-unit major requirement for the associate degree. For remaining general-education requirements, major courses and unit requirements, consult this catalog and/or a counselor.

*MANUFACTURING TECHNOLOGY PROGRAM DESCRIPTION

Manufacturing technology is an occupational program designed to prepare students for a variety of entry-level positions in a manufacturing environment. These positions may include manual machine operator, computer numerical control operator, and CAD/CAM designer or programmer. Classes are designed for first-time college students, re-entry students, and current industry employees requiring skill enhancement or upgrade training. In support of computerized skill requirements, the Manufacturing Technology program is constantly changing. A degree in manufacturing technology is structured to encourage transfer to a comparable program at a four-year college or university.

CERTIFICATE OF ACHIEVEMENT

MFGT 100	Measurements and Computations	3.0 Units
MFGT 101	Materials & Processes in Manufacturing	3.0 Units
MFGT 102	Engineering Drawing Interpretation	3.0 Units
MFGT 103	Introduction to Automated Manufacturing	3.0 Units
MFGT 121	CNC 1: Operation and Manual Programming	3.0 Units
MFGT 122	CNC 2: Concepts & Programming	3.0 Units
Plus six units from:		
DAT 150	Introduction to Mechanical Drafting and AutoCAD	3.0 Units
MFGT 131	CAD/CAM I	3.0 Units
MFGT 132	CAD/CAM 2	3.0 Units
MFGT 141	CATIA I	3.0 Units

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MFGT 142	CATIA II	3.0 Units	MATH 213	Calculus II	5.0 Units
MFGT 143	CATIA III	3.0 Units	MATH 214	Linear Algebra	3.0 Units
	OR		MATH 215	Differential Equations	3.0 Units
CWEXP 188	Cooperative Work Experience: MFGT	1.0 – 4.0 Units			
	Total	24.0 Units			

DEGREE REQUIREMENTS

Classes required for the certificate can also be used to satisfy the 18-unit major requirement for the associate degree. For remaining general-education requirements, major courses, and unit requirements, consult this catalog and/or a college counselor.

*MATHEMATICS

PROGRAM DESCRIPTION

The mathematics program provides curriculum from basic arithmetic to algebra, statistics, linear algebra, calculus, and differential equations.

The mathematics courses fulfill breadth requirements, associate degree requirements and transfer major requirements for degrees in mathematics, physics, chemistry and engineering.

Many B.A./B.S.-level careers require extensive background in mathematics. Virtually all two-year career programs in business or technology fields require a solid foundation in mathematics. Samples of these career options are computer programmer, financial analyst, statistician, systems analyst, urban planner, and teacher.

DEGREE REQUIREMENTS

The major for an associate degree in mathematics can be met by completing 18 units of mathematics courses numbered 070 or higher.

MATH 211	Calculus I	5.0 Units
MATH 212	Calculus II	5.0 Units
Plus eight units from:		
MATH 070	Intermediate Algebra	5.0 Units
MATH 102	Trigonometry	3.0 Units
MATH 103	College Algebra	4.0 Units

*MUSIC

PROGRAM DESCRIPTION

Through courses in music composition, applied music, electronic music, theory, keyboard, jazz improvisation, voice and musicianship, the music program provides a strong foundation for students wishing to continue their education at any four-year college, as well as professionals looking to expand their musical concepts and skills. Besides offering a transferable curriculum that permits students to maximize the opportunities for admission into the UC and the CSU systems, a comprehensive articulation agreement exists with California Institute of the Arts (CalArts) that is designed to facilitate the process of acceptance for all college music majors wishing to pursue their studies at that institution. The Symphony of the Canyons, the Jazz Ensemble, various choirs and youth orchestras offer students the environment to cultivate their performance skills while enhancing the cultural life of the Santa Clarita Valley through participation in concerts and special events on or off the college's campus.

Students of any age can enroll in music courses scheduled during the afternoon hours. These courses are designed for junior and senior high school students wishing to advance toward the fulfillment of four-year university requirements for a bachelor's degree in music. A concurrent-enrollment form, available at the school attended by the applicant, will be requested by the College of the Canyons Admissions and Records Office.

Associate in Arts Degree

The major requirement for an associate degree in music can be met by completing a minimum of 18 units, which include 14 units from the core curriculum and a minimum of four units from any one area of specialty. In addition, it is recommended for performance majors to take private instruction with the goal of becoming proficient on a string, woodwind, brass or percussion instrument and to ensure satisfactory placement following entrance examinations at four-year institutions.

* Associate Degree Program

Degree Curricula and Certificate Programs

CORE REQUIREMENTS FOR THE MAJOR IN MUSIC

MUSIC 101	Musicianship Skills I	1.0 Unit
MUSIC 102	Musicianship Skills II	1.0 Unit
MUSIC 103	Musicianship Skills III	1.0 Unit
MUSIC 104	Musicianship Skills IV	1.0 Unit
MUSIC 120	Tonal Harmony	3.0 Units
MUSIC 121	Chromatic Harmony	3.0 Units
MUSIC 122	Tonal Counterpoint	3.0 Units
MUSIC 123	Modal Counterpoint	3.0 Units
MUSIC 131	Keyboard Instruction I	2.0 Units
MUSIC 132	Keyboard Instruction II	2.0 Units
MUSIC 174	College Chorus	1.0 Unit

OR

MUSIC 175	Festival Choir: Voices of the Canyons	1.0 Unit
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AREAS OF SPECIALIZATION

Performance/Jazz

MUSIC 151	Jazz Improvisation	1.0 Unit
MUSIC 153	Studio Jazz Ensemble	1.0 Unit

Performance/Voice

MUSIC 140	Studio Singing	1.0 Unit
MUSIC 141	Voice Development	1.0 Unit
MUSIC 175	Festival Choir: Voices of the Canyons	1.0 Unit
MUSIC 176	Chamber Singers	1.0 Unit
MUSIC 177	Les Chanteuses: Women's Choir	1.0 Unit

Composition

MUSIC 125	Studies in Music Composition	4.0 Unit
MUSIC 127	Orchestration I	3.0 Unit
MUSIC 128	Orchestration II	3.0 Unit
MUSIC 129	Music Production for Film & Television	3.0 Unit

Performance/Concert Music

MUSIC 165	Symphony of the Canyons	2.0 Unit
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Total Units: 4 units minimum, 8 units maximum

Performance/Guitar

MUSIC 126	Pop Jazz Theory	3.0 Unit
MUSIC 160	Guitar Studies I	2.0 Unit
MUSIC 161	Guitar Studies II	2.0 Unit
MUSIC 167	Jazz Guitar Studies I	2.0 Unit
MUSIC 168	Jazz Guitar Studies II	2.0 Unit
MUSIC 169	Improvisation for Guitarists	2.0 Unit

DEGREE REQUIREMENTS

The music department also offers several classes which satisfy general education requirements in the area of Humanities.

These are:

MUSIC 100	Fundamentals of Music	3.0 Unit
MUSIC 105	Understanding Music	3.0 Unit
MUSIC 106	Development of Jazz	3.0 Unit

*NURSING

PROGRAM DESCRIPTION

Nursing is an art and science incorporating knowledge from behavioral, biological and physical sciences. It has a holistic concept of health in which the physical, emotional, psychological, intellectual, social and spiritual aspects of human functioning are interrelated, interdependent and of equal importance.

Offered are an associate degree nursing (registered nursing) program, vocational nursing program, nurse assistant course, home health aide course, medical assisting course and post-graduate nursing specialty courses.

The nursing programs and the home health-aide courses all have clinical components in which the student cares for clients in the acute-care setting, sub-acute setting and home setting. The nurse-assistant course has a

* Associate Degree Program

Degree Curricula and Certificate Programs

clinical component in which the student cares for residents in a long-term care facility. The medical office assistance course has a laboratory component during which the students practice their skills.

All of the nursing science programs prepare the student for an entry-level position in the health-care setting. The RN student may move directly into the position of a beginning staff nurse, and the VN student may move into the role of beginning staff LVN. The nurse assistant, home health aide and medical assistant students may all move into a staff position after completion of the program. The RN, LVN, and nurse assistant students must take a state examination before they may practice. The programs will prepare them for these tests.

Health Sciences

Allied Health is the study of issues and procedures involved in educating students for a career in a health-related field. The Allied Health Division offers a basic emergency medical technician course, a course on health-care based nutrition and a course on basic medical terminology.

The Emergency Medical Technician course prepares students to assist in the transport of patients and to be a member of the health-care team in the emergency room. The student receives experience in the emergency room and on the ambulance. The nutrition and medical terminology courses provide an introduction to the health-care field and a beginning knowledge base for other health-care programs.

DEGREE PROGRAMS

Registered Nursing

Associate degree in nursing program requirements

Biology 107 pre-requisite to 204/205 or 250	4.0 Units
Anatomy and Physiology 204/205 or 250	8.0 Units
American Institutions Requirement	6.0 Units
Communication Studies (105 or 223)	3.0 Units
English 090 or 101	3.0 Units
Math 070 or Business Math 744	5.0 Units
Microbiology (Bio 221)	5.0 Units

Psychology 101	3.0 Units
Nursing:	
Nursing 101A Fundamentals of Nursing – A	4.0 Units
Nursing 101AL Fundamentals of Nursing-A: Lab	4.5 Units
Nursing 101B Fundamentals of Nursing – B	0.5 Unit
Nursing 101BL Fundamentals of Nursing - B: Lab	1.0 Unit
Nursing 102 Beginning Medical-Surgical Nursing	2.5 Units
Nursing 102L Beginning Medical-Surgical Nursing Lab	1.5 Units
Nursing 106 Maternal - Newborn/Pediatric Nursing	3.0 Units
Nursing 106L Maternal - Newborn/ Pediatric Nursing Lab	2.5 Units
Nursing 200 Psychiatric Nursing	2.5 Units
NURSNG 200L Psychiatric Nursing Lab	2.0 Units
Nursing 202 Intermediate Medical-Surgical Nursing	3.0 Units
Nursing 202L Intermediate Medical-Surgical Nursing Lab	2.0 Units
Nursing 204 Advanced Medical-Surgical Nursing	5.5 Units
Nursing 204L Advanced Medical-Surgical Nursing Lab	4.5 Units
Nursing 101A Fundamentals of Nursing – A	4.0 Units
Nursing 101AL Fundamentals of Nursing-A: Lab	4.5 Units
Nursing 101B Fundamentals of Nursing – B	0.5 Unit
Nursing 101BL Fundamentals of Nursing - B: Lab	1.0 Unit
Nursing 102 Beginning Medical-Surgical Nursing	2.5 Units
Nursing 102L Beginning Medical-Surgical Nursing Lab	1.5 Units

* Associate Degree Program

Degree Curricula and Certificate Programs

Nursing 106 Maternal - Newborn/Pediatric Nursing	3.0 Units		VOCNSG 103	Medical-Surgical Nursing I	8.0 Units
Nursing 106L Maternal - Newborn/Pediatric Nursing Lab	2.5 Units		VOCNSG 104	Medical-Surgical Nursing II	6.0 Units
Nursing 200 Psychiatric Nursing	2.5 Units		VOCNSG 105	Medical-Surgical Nursing III	11.0 Units
Nursing 200L Psychiatric Nursing Lab	2.0 Units		VOCNSG 106	Maternal-Newborn/ Pediatric Nursing	6.0 Units
Nursing 202 Intermediate Medical-Surgical Nursing	3.0 Units		VOCNSG 107	Medical-Surgical IV	5.0 Units
Nursing 202L Intermediate Medical-Surgical Nursing Lab	2.0 Units		BIOSCI 250	Human Anatomy & Physiology	8.0 Units
Nursing 204 Advanced Medical-Surgical Nursing	5.5 Units		ENGL 080	Intro to College Reading	3.0 Units
Nursing 204L Advanced Medical-Surgical Nursing Lab	4.5 Units		ENGL 090	Writing Skills	3.0 Units
			MATH 060 or Business Math 144		5.0 Units
Total	76 Units			Placement tests in English and math may be taken.	
			Total		68.0 Units

CERTIFICATE PROGRAMS

Medical Assistant

NURSNG 052	Introduction to Medical Assisting	3.0 Units
NURSNG 053	Beginning Medical Assisting	3.0 Units
NURSNG 054	Intermediate Medical Assisting	3.0 Units
NURSNG 055	Advanced Medical Assisting	3.0 Units
CIT 130	Medical Office Procedures	3.0 Units
CIT 010	Exploring Computers – Brief	1.5 Units
CIT 132	Medical Office Finances	3.0 Units
	Total	19.5 Units

Vocational Nursing

VOCNSG 100	Nursing Fundamentals I	5.0 Units
VOCNSG 101	Nursing Fundamentals II	5.0 Units
VOCNSG 102	Pharmacology	3.0 Units

GENERAL INFORMATION

Accrediting Boards for Registered Nursing and LVN-RN Career Ladder

National League for Nursing Accrediting Commission (NLNAC)

61 Broadway
New York, NY 10006
(800) 669-1656
(212) 363-5555

Board of Registered Nursing (BRN)

1170 Durfee Ave., Suite G
South El Monte, CA 91733-4400
(626) 575-7080
(626) 575-7090 FAX

Board of Registered Nursing (BRN)

P.O. Box 944210
Sacramento, CA 94244-2100
(916) 322-3350

Accrediting Board for Vocational Nursing

Board of Vocational Nursing and Psychiatric Technicians

2535 Capitol Oaks Drive, Suite 205
Sacramento, CA 95833-2919

* Associate Degree Program

Degree Curricula and Certificate Programs

B.S.N. INFORMATION

The Counseling Department will assist students who are interested in continuing their nursing-science education at a four-year college by identifying transferable courses. The office has information sheets for transfer to the CSUN RN-BSN program or the UCLAADN-MSN program.

For CSUN transfer, the following lower-division courses are required:

CHEM 151	Prep General Chemistry	4.0 Units
SOCI 101	The Changing Family	3.0 Units
MATH 103	College Algebra	4.0 Units

OR

MATH 140	Intro Statistics	4.0 Units
CMPSCI 101	Introduction to Computer Science	4.0 Units

OR

CIT 140	Microsoft Office	3.0 Units
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CSUN RN-BSN program may be offered via Interactive TV. Please see chair of nursing at CSUN for details.

CSU GE

- * English 101 (A-2)
- * English 102, or 103, or Philosophy 205, or Speech 225 (A-3)
- * 9 units from Area C - Arts & Humanities (must include one course from C-1 and one course from C-2)
- * 3 units from Area E

70 College of the Canyons credits may be transferred. Students will also need 9 units of upper-division general-education of upper-division elective classes from CSUN.

Admission Requirements for Degree and Certificated Nursing Programs

1. All nursing science and co-requisite courses must be completed with a C grade or better.
2. A transfer or challenge student must begin this process by submitting application and transcripts to the Allied Health Office. An appointment with

the assistant dean of allied health/director of nursing must be scheduled as well.

3. Proof of vaccination followed by positive titer for Hepatitis B (or signed waiver), rubeola, rubella, mumps, diphtheria, and tetanus required. Varicella titer required.
4. Negative mantoux or chest X-ray documentation is required.
5. All nursing students are required to have an annual physical examination. The first physical must be within six months of beginning classes.
6. Current CPR certificate (for health-care providers) required prior to start of classes.
7. In addition to the purchase of supplies, textbooks and uniforms, students must pay Associated Student Government fees and enrollment fees including purchase of a College of the Canyons patch.
8. Students must provide their own living expenses and transportation. Limited educational grants, scholarships and loans are available.
9. Students must purchase a student nurse handbook that details information regarding philosophy, grading, dismissal, re-entry, probation and ethics.

The following nursing courses do not require a nursing program application:

Nursng 050 Nurse Assistant and Nursng 051 Home Health Aide

1. Obtain an admission packet from the Allied Health Office.
2. Apply to College of the Canyons
3. Take recommended placement tests (English 090 is recommended)
4. Enroll in Nursng 050 and/or 051

REGISTERED NURSING PROGRAMS

College of the Canyons offers two Registered Nurse options, the Generic RN Program and the Career Ladder LVN-to-RN Program. Both options are fully accredited by the National League for Nursing and the California Board of Registered Nursing.

* Associate Degree Program

Degree Curricula and Certificate Programs

Generic (two-year) RN Program Option

The two-year Generic RN Program is designed for the student who does not have nursing experience. The curriculum includes four semesters of both theory and clinical experience (excluding the one-semester prerequisite of Biology 107 or advanced placement high school biology) to qualify the graduate to receive a certificate of completion or an associate in science degree with a major in nursing science and to take the National Council Licensure Exam (NCLEX). Admission into the program occurs every semester. Applications are taken year-round and the qualified student is placed on a waiting list.

RN Program application procedure:

1. Obtain College of the Canyons application, complete and submit with an official copy of transcripts from each college attended to the Admissions and Records Office.
2. Obtain nursing program application, complete and submit to the Allied Health Office. An official copy of transcripts from each college attended, as well as math and English-placement test results (if applicable), MUST be attached to the nursing program application.

** Note: student must provide two sets of official transcripts: one for Admissions and Records and one for the Nursing Program.*

SELECTION CRITERIA

RN and LVN-RN Career Ladder Program

1. Completion of English 090, English 080, Math 060 or Business 144 (with a grade of C or better).
2. Minimum GPA of 2.5 in any completed nursing degree requirements (Biology 204, 205, or 250, and Biology 221, Psychology 101, English 090 or 101, and Speech 105 or 223). GPA is calculated by using nursing courses (listed above) completed by the time of selection. For high school students who have not taken college classes GPA is calculated using advanced-placement science classes and algebra.* (No more than two years after high school graduation.)

3. Qualified applicants are placed on a waiting list.

**If advance-placement courses were not taken, at least one nursing-science requirement must be complete to attain a GPA.*

Associate Degree Nursing Requirement

In order to receive an associate degree, registered nursing students must complete all nursing-education courses and all general-education requirements with a grade of C or better. **(See four-semester sample curriculum guide below.)** All requirements for the associate degree must be completed before the student will be allowed to apply for licensure. Nursing courses may be challenged per College of the Canyons challenge policy.

Nursing Sample Curriculum Guide for Generic RN Student:

First Year - First Semester:

- * Biological Sciences 204
- * Nursng 101A/101A-L
- * Nursng 101B/101B-L
- * Math 070 or Business Math 144

First Year - Second Semester:

- * Biological Sciences 205
- * Psychology 101
- * Nursng 102/102L
- * Nursng 106/106L

Second Year - Third Semester:

- * English 101 or 090
- * History 150
- * Sp Com 105 or 223
- * Nursng 200/200L
- * Nursng 202/202L

Second Year - Fourth Semester

- * Biological Sciences 221
- * Political Science 150
- * Nursng 204/204L

* Associate Degree Program

Degree Curricula and Certificate Programs

Non-nursing science courses may be taken concurrently with nursing courses. In addition, all eligibility requirements must be met.

All courses required for the associate degree must be completed before student may apply for licensure.

LVN-RN CAREER LADDER PROGRAM DESCRIPTION

Program Purpose

The LVN-RN program is specifically designed to provide the LVN an opportunity for career advancement and to prepare the LVN for the responsibility, knowledge and skills required for the registered nurse. The purposes of the College of the Canyons Career Ladder Program are to qualify the graduate to receive a certificate of completion, an associate in science degree (with a major in nursing) and to take the national licensure examination to become a registered nurse.

The LVN-RN Career Ladder Program at College of the Canyons is designed to enhance the advancement from an LVN to an RN. This unique program allows the LVN to complete the second year of the RN program with a choice of three options:

Three options available

- Enter into the generic program
- Summers-only program
- Web-based, online program

APPLICATION PROCEDURE

1. Obtain College of the Canyons application, complete and submit with a copy of official transcripts from each college attended to the Admissions and Records Office.
2. Obtain a nursing program application, complete and submit to the Allied Health Office. An official copy of transcripts from each college attended, as well as math and English-placement test results (if applicable), MUST be attached to the nursing program application.

** Note: student must provide two sets of official transcripts: one for Admissions and Records and one for the Nursing Program.*

3. Submit proof of IV certification prior to beginning of Bridge Class (Nursng 103)

4. Submit proof of LVN program completion prior to beginning the LVN-RN program.

5. Submit copy of LVN license prior to beginning Nursng 103.

Summers Only: Nursng 200/200L and Nursng 202/202L are taken in the first summer. Nursng 204/204L is taken in the second summer. The LVN can work and take classes between these two summers.

Web-based Online: Nursng 200/200L taken in summer. Nursng 202 taken on-line in fall semester with 202L completed at clinical site. Nursng 204 taken on-line in spring concurrent with 204L completed at clinical site.

Enter Generic Program Second Year: Complete Nursng 200/200L and 202/202L in fall semester. Complete Nursng 204/204L in spring semester with generic students. This admission is based on eligibility and space-available basis.

LVN-RN Bridge Course Nursng 103 must have received a grade of "credit" by all LVN-RN students prior to beginning the Nursng 200 series.

The Career-Ladder RN program consists of the following nursing classes:

- * Nursng 103 (semester prior to beginning Nursng 200/200L)
- * Nursng 200/200L
- * Nursng 202/202L
- * Nursng 204/204L

Students must complete ALL requirements for the associate degree before the student will be allowed to apply for licensure.

30 Unit Option

The LVN who chooses the "30-unit option" must have a California vocational nursing license and must meet the microbiology and physiology requirements with a grade of C or better. The applicant must then take Nursng 103, 200/200L, 202/202L, and 204/204L. Upon satisfactory completion of these classes, the applicant would be eligible to apply to take the RN licensure examination.

The student would NOT be a graduate of the College of the Canyons Nursing Program or of the College.

Applicants to this curriculum alternative must meet with

* Associate Degree Program

the nursing director for advisement. Placement will be based on space.

VOCATIONAL NURSING (VOCNSG)

College of the Canyons' vocational nursing program is designed for the individual who must work full-time or is not able to attend college during traditional classroom hours. This two-year, part-time program includes a 10-week summer session between the two years. Classes are two evenings and on Saturdays. The program is fully accredited by the California Board of Vocational Nursing and Psychiatric Technicians and qualifies the graduate to receive a certificate of completion and to take the National Council Licensure Examination (NCLEX).

Vocational nursing program application procedure:

1. Obtain College of the Canyons application, complete and submit with a copy of official transcripts from each college attended to the Admissions and Records Office.
2. Obtain a nursing program application, complete and submit to the Allied Health Office. An official copy of transcripts from each college attended, as well as math and English-placement test results (if applicable) MUST be attached to the nursing program application.

** Note: student must provide two sets of official transcripts: one for Admissions and Records and one for the Nursing Program.*

3. High school transcripts or GED forwarded to the Allied Health Office.

SELECTION CRITERIA

Vocational Nursing Program (VOCNSG)

1. Completion of English 090, English 080, Math 060, or Business 144 (with a grade of C or better).
2. Completion of high school or equivalency.
3. The vocational nursing applicant may receive 100 clinical hours of advanced-placement credit. Qualifying applicants are those with education or experience as certified nursing assistants. An applicant who desires admission to the vocational nursing program by advanced standing must make an advisement appointment with the director or assistant director of nursing.

4. Lottery every other spring for all applicants who meet above criteria.

• VOCNSG students must complete Biology 204-205 or Biology 250 before completion of Vocational Nursing Program.

PERSONAL DEVELOPMENT PROGRAM DESCRIPTION

Personal-development courses are designed to foster each student's personal growth and potential for academic success, including increased interpersonal effectiveness, career awareness, self-awareness, enhanced feelings of self-worth and a greater sense of self-identity. These courses provide an opportunity for students to meet with others to share some common concerns or explore some common interests and ideas. All courses are led by professional counselors.

PHILOSOPHY PROGRAM DESCRIPTION

The study of philosophy is designed to acquaint students with the distinctive nature of philosophical activity and to help them increase their skills in analytical and critical thinking about matters of fundamental philosophical concern, e.g., the nature of correct reasoning, the scope and limits of human knowledge, the nature of human free will, the most general and ultimate characteristics of reality, the basis of judgments of right and wrong, and the sources of value and obligation.

Philosophy courses seek to assist students in developing skills in critical examination and abstract thought, and to demonstrate the application of the questions and skills of philosophy to practical issues. Courses offered in this program meet general-education and transfer requirements.

PHOTOGRAPHY PROGRAM DESCRIPTION

The primary goal of the program is to provide a strong fundamental education in the basics of photography. With lower-division courses arranged for easy university transfer, these foundation courses focus on perfecting the process of camera control and black-&-white development. The program also offers specialty courses in alternative process, digital, color, and studio photography, as well as photojournalism to accommodate the needs of students with multiple skill levels. Advanced courses provide students with preparation for photography-related jobs.

* Associate Degree Program

Degree Curricula and Certificate Programs

*PHYSICAL EDUCATION

PROGRAM DESCRIPTION

The physical education program offers a diverse curriculum that includes theory courses in physical education, health education, and athletic training/sports medicine. A wide variety of movement courses are offered for the development of physical-activity skills, knowledge, and fitness necessary for lifetime wellness in the areas of group exercise, aquatics, team sports, and recreation. Traditionally strong intercollegiate athletic programs offer performance-based students opportunities for competition.

The physical education department offers an associate degree in physical education as well as an associate degree in athletic training.

With a growing emphasis on physical fitness, life-long recreational activities in our society, the demand for courses in the physical education department is expected to increase.

DEGREE REQUIREMENTS

Physical Education

PHYSED 100	Health Education	3.0 Units
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Plus 10 units from

PHYSED 115 - 260

Plus

BIOSCI 107	Molecular & Cellular Biology	4.0 Units
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*ATHLETIC TRAINING PROGRAM

The athletic training program/degree is designed to prepare the student for appropriate procedures in the prevention, care and rehabilitation of athletic injuries. This program is designed to transfer students to a four-year institution where they can continue their education to fulfill professional requirements such as the ones governed by the National Athletic Trainers Association; students with these skills and knowledge will be able to transfer to California State University, Northridge.

CORE COURSES REQUIRED

PHYSED 109	Emergency Procedures	2.0 Units
PHYSED 110	Prevention and Care of Athletic Injuries	3.0 Units
PHYSED 110L	Prevention and Care of Athletic Injuries Lab	1.0 Unit

* Associate Degree Program

PHYSED 112	Athletic Training Clinical Experience	1.0-3.0 Units
BIOSCI 107	Molecular and Cellular Biology	4.0 Units
BIOSCI 204-205 or 250	Human Anatomy and Physiology I and II	8.0 Units
PHYSED 100	Health Education	3.0 Units
Select six units from the following:		
PHYSED 113	Athletic Training, Fall Sports	2.0 Units
PHYSED 114	Athletic Training, Spring Sports	2.0 Units
PHYSED 115	Athletic Training, Advanced Fall Sports	2.0 Units
PHYSED 116	Athletic Training, Advanced Spring Sports	2.0 Units
Total		28.0-30.0 Units

PHYSICS/ASTRONOMY PROGRAM DESCRIPTION

The physics/astronomy program provides curriculum concerned with the properties of matter and energy, and their interactions and transformations. Astronomy is the study of the principles and development of the solar system and the galaxies. The physics program includes both major and non-major courses. Astronomy classes are limited to general-survey introductory courses for physical science majors or students looking for interesting alternatives to fulfill general-education requirements. The following is a sample of career options available for the physics/astronomy major. A few require the associate degree, most require a baccalaureate degree, and some require a graduate degree: air pollution operations, consumer-safety officer, engineer, teacher, astrophysicist.

DEGREE REQUIREMENTS

An associate degree is not available in physics or astronomy since these are considered to be transfer majors.

POLITICAL SCIENCE PROGRAM DESCRIPTION

Public authority, responsibility, and acquisition of power are all studied in the discipline of political science. Introductory courses are for students interested in learning about American government, politics in general and relationships with other political systems in the world. Students majoring in political science who are pre-law will particularly profit from the more advanced courses in the department.

Students interested in foreign service, international relations and/or communications will enjoy participating in the Model United Nations program offered by the department. A major in political science is of benefit to students seeking careers in law, the military, economics, law enforcement, business, and public administration.

DEGREE REQUIREMENTS

An associate degree is not available in political science since this is considered to be a transfer major. Students wishing the associate degree should major in general education and include those classes required by the transfer institution. Students not wishing to transfer may also major in social science.

PSYCHOLOGY PROGRAM DESCRIPTION

Psychology is both a natural science and a social science concerned with the scientific study of behavior, mental processes, life-span development, disorders and well-being. As such, psychology is a broad discipline that involves the pursuits of pure science and the practical application of science to describe, predict, understand and control matters of everyday living and behavior. The psychology curriculum at College of the Canyons is designed to serve as a valuable part of students' general education, to provide students with courses that will facilitate transfer to other colleges and universities, to support the training of human-service professionals, and to enhance the quality of life when applied to everyday experience.

Most careers in psychology require graduate study. However, there are increasing opportunities in business in the human resources and industrial-organizational specialties, in education and in health-care for individuals at the bachelor's level. The understanding of human behavior is essential in all career choices.

DEGREE REQUIREMENTS

An associate degree is not available in psychology since this is considered to be a transfer major. Students wishing the associate degree should major in general education and include those classes required by the transfer institution. Students not wishing to transfer may also major in social science.

***QUALITY TECHNOLOGY PROGRAM DESCRIPTION**

Quality technology is an occupational program designed to prepare students for a variety of positions, from entry-level inspection to quality management. Courses offered include lecture, hands-on experience, and a selection of field trips to demonstrate actual application of area studies. Major areas are mechanical/electrical measurements, statistical concepts, process control, interpretation of specification, and nondestructive testing.

CERTIFICATE REQUIREMENTS

QCTECH 100	The Quality Control Function	3.0 Units
QCTECH 101	Measurement-Mechanical/Electrical	4.0 Units
QCTECH 150	Interpretation of Specifications	2.0 Units
QCTECH 151	Statistical Concepts	2.0 Units
QCTECH 152	Process Control	4.0 Units
QCTECH 153	Non-Destructive Testing	3.0 Units
	Total	18.0 Units

DEGREE REQUIREMENTS

Classes required for the certificate can also be used to satisfy the 18-unit major requirement for the associate degree. For remaining general-education requirements, major courses and unit requirements, consult this catalog and/or a counselor.

RADIO/TELEVISION/FILM PROGRAM DESCRIPTION

A study of media at College of the Canyons provides comprehensive instruction for transfer majors as well as professional preparation for entry-level positions. The program offers a broad curriculum that allows students to produce media and critically examine its role in contemporary society.

Degree Curricula and Certificate Programs

CERTIFICATE PROGRAM

The purpose of a certificate program is to provide the student with individual and technical competence in a specific occupational area. Upon successful completion (grade C or better) of the certificate courses, the student is considered to have attained entry-level competencies in specific job categories.

Television Production Certificate Requirements

RTVF 101	Structure of the Moving Image	3.0 Units
RTVF 112	Video Production	3.0 Units
RTVF 115	Writing for Broadcast	3.0 Units
RTVF 118	Editing	3.0 Units
RTVF 125	Television Production	3.0 Units
RTVF 170	Audio Production	3.0 Units
RTVF 218	Advanced Film/Video Editing	3.0 Units
RTVF 290	RTVF Portfolio	3.0 Units
	Total	24.0 Units

Film/Video Production Certificate Requirements

RTVF 101	Structure of the Moving Image	3.0 Units
RTVF 112	Video Production	3.0 Units
	OR	
RTVF 190	Film Production	3.0 Units
RTVF 118	Editing	3.0 Units
RTVF 170	Audio Production	3.0 Units
RTVF 195	Screenplay Writing	3.0 Units
RTVF 250	Film/Video Cinematography (Camera & Lighting)	3.0 Units
RTVF 280	Advanced Film Production	3.0 Units
	OR	
RTVF 218	Advanced Film/Video Editing	3.0 Units

RTVF 290	RTVF Portfolio	3.0 Units
	Total	24.0 Units

Audio/Radio Production Certificate Requirements

RTVF 101	Structure of the Moving Image	3.0 Units
RTVF 112	Video Production	3.0 Units
RTVF 115	Writing for Broadcast	3.0 Units
RTVF 118	Editing	3.0 Units
RTVF 170	Audio Production	3.0 Units
RTVF 175	Radio Production	3.0 Units
RTVF 270	Advanced Audio Production	3.0 Units
RTVF 290	RTVF Portfolio	3.0 Units
	Total	24.0 Units

Note: Many classes have a prerequisite or co-requisite; students should check with the current college catalog or their counselor before enrolling.

DEGREE REQUIREMENTS

Classes required for the certificate can also be used to satisfy all or part of the 18-unit major requirement for the associate degree. It is recommended that courses for the major be clustered within the respective media arts disciplines.

*REAL ESTATE PROGRAM DESCRIPTION

The real estate program involves the study of California real estate principles, practices, procedures, law and financial issues. Students 18 or older who successfully complete REAL 100 (principles are academically qualified to sit for the California real estate license examination and upon successful completion of that test can be issued a provisional (19-month) license. Upon successful completion of two additional courses from the list below, the student is academically qualified to receive a four-year license.

Students who complete seven classes as described in the list below receive a certificate of achievement and, if they meet other state requirements, are academically qualified to sit for the broker's examination.

* Associate Degree Program

Degree Curricula and Certificate Programs

CERTIFICATE

REAL 101	Real Estate Practices	3.0 Units
REAL 105	Real Estate Financing	3.0 Units
REAL 115	Legal Aspects of Real Estate	3.0 Units
REAL 120	Real Estate Appraisal	3.0 Units
BUS 201	Principles of Accounting I	5.0 Units

And three classes from the list of courses below:

REAL 100	Real Estate Principles	3.0 Units
REAL 121	Real Estate Appraisal II	3.0 Units
REAL 130	Escrow Procedures and Processing	3.0 Units
BUS 211	Business Law	3.0 Units

DEGREE REQUIREMENTS

Courses taken for the certificate requirements also satisfy the core degree requirements for the associate degree. For remaining general-education requirements consult the college catalog and/or a counselor.

SIGN LANGUAGE

PROGRAM DESCRIPTION

The study of American Sign Language (ASL) develops the student's communicative competency in ASL. Students taking courses in this program develop grammatical skills, acquire ASL vocabulary, increase their awareness of deaf culture, and strengthen their communicative skills. ASL courses provide students with instruction and training in preparation to transfer to four-year schools and basic training for persons needing ASL skills in the workplace or in everyday life.

DEGREE REQUIREMENT

An associate degree is not available in sign language. Students wishing the associate degree should major in general education and include those classes required by the transfer institution.

*SOCIAL SCIENCE

PROGRAM DESCRIPTION

Social Science is the study of people as members of a society. It examines individual and group behavior, communication and decision-making from a contemporary

view, as well as historical roots and evolving perspectives. The associate degree takes an interdisciplinary approach to the field and is designed to provide an overview of the broad range of courses that constitute and are available in the social sciences.

DEGREE REQUIREMENTS

American Institutions Requirement (HIST 170 and POLISC 150 or HIST245 and POLISC 150)	6.0 Units
1 course from Psychology (except PSYCH 102 and 103)	3.0 Units
1 course from Sociology	3.0 Units
1 course from Anthropology (except ANTHRO 101)	3.0 Units
1 course from Communication Studies chosen from COMS 223, 246 or 260	
or Economics (except ECON 291)	3.0 Units
Total	18.0 Units

SOCIOLOGY

PROGRAM DESCRIPTION

Sociology is both a scientific and humanistic discipline. It is concerned with the study of group life and systems of social action. As a social science, sociology examines the social and cultural interplay among human encounters. These arrangements range from the exploration of single social acts, social relationships, and organizations to the analysis of institutions, communities, and societies. Social interaction provides the mode of inquiry, as each setting is examined within its larger social and cultural milieu; understanding that human behavior is shaped by personal exchanges and structural occurrences. The interrelationships that exist between these conditions are investigated, as are the social forces that create their outcomes.

In its practical application, sociology deals with the ways in which sociological findings are employed to achieve stated goals and encourage social change. Survey courses introduce students to the basic theoretical, methodological, and analytical techniques used to explain and interpret social behavior. In addition, a variety of courses offer an examination of contemporary social issues such as aging, social deviance, and death

* Associate Degree Program

Degree Curricula and Certificate Programs

and dying – each of which challenges students to question their "taken-for-granted" world views. Sociology provides a valuable liberal-arts emphasis for students contemplating a wide variety of career paths, since it develops strong critical thinking and communication skills. Students holding the bachelor's degree will find a sociological background useful in entering the fields of law, business, medicine, counseling, or politics.

DEGREE REQUIREMENTS

An associate degree is not available in sociology since this is considered to be a transfer major. Students wishing the A.A. degree should major in general education and include those classes required by the transfer institution. Students not wishing to transfer may also major in social science.

THEATRE PROGRAM DESCRIPTION

The theatre department offers courses in both theory and practice. It is committed to teaching an immediately useful set of theatre skills, including acting, script-writing, technical production and directing while providing a wide spectrum of production experiences in which to practice them; and to place the art of theatre in its larger historical context. The theatre program serves the college, community and students by providing theatrical and dramatic productions.

*WELDING PROGRAM DESCRIPTION

Welding is a vocational program involving the study of metals and welding techniques, including the development of skills in tool usage, welding and cutting.

Students have the opportunity for skill development in a well-equipped welding shop with a vast number of course offerings covering basic welding fundamentals to advanced high-tech processes so that students can fulfill their individual skills needs. Emphasis on individual instruction by a highly qualified staff enables students to gain skillfulness that can lead to certification and valuable life long skills. Field trips to related industries along with guest lecturers from associated manufacturing industries complement the curriculum. Students are assisted with job placement in related fields.

Instruction is available at three levels:

1. Fundamental skills in oxyacetylene welding and cutting; and
2. Shielded metal arc, MIG TIG, and Resistance spot welding
3. Advanced welding processes (orbital, chamber, and laser)

Students may also pursue one or more of the following Los Angeles City certifications in welding:

1. Structural Steel
2. Light Gauge
3. Semi-automatic
4. Rebar
5. TIG (mil specialists 5021)

CERTIFICATE OF ACHIEVEMENT

WELD 100	Introduction to Oxy-Acetylene Welding	2.0 Units
WELD 101	Introduction to Arc Welding	2.0 Units
WELD 120	Industrial Welding I	5.0 Units
WELD 122	Industrial Welding II	5.0 Units
WELD 124	Industrial Welding III	5.0 Units
WELD 125	Industrial Welding IV	1.0 Unit
WELD 130	Welding Metallurgy	3.0 Units
WELD 140	Welding Inspection	3.0 Units
	Total units	26.0 units

Individual course-completion certificates are available upon written request to the welding department.

DEGREE REQUIREMENTS

Classes required for the certificate can also be used to satisfy the 18-unit major requirement for the associate degree. For remaining general-education requirements, major courses and unit requirements, consult this catalog and/or a counselor.

* Associate Degree Program