ADMINISTRATION OF JUSTICE

For the Associate in Science in Administration of Justice for Transfer Degree see page 45.

CERTIFICATE REQUIREMENTS:
CERTIFICATE OF ACHIEVEMENT IN ADMINISTRATION OF JUSTICE

(Program Code 210500, State Code 21900)

Students obtaining an Administration of Justice Certificate will be better qualify for entry-level positions in the fields of Law, Law Enforcement, Correctional Science or Homeland Security on the local, county, state and federal levels of service. Positions obtained include: Police Officer, Deputy Sheriff, Highway Patrol Officer, FBI Agent, Probation / Parole Agent and Security Officer.

Estimated time to complete: 1 year.

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:

ADM JUS 001	Introduction to Administration of Justice	3
ADM JUS 002	Concepts of Criminal Law	3
ADM JUS 003	Legal Aspects of Evidence	3
ADM JUS 004	Principles and Procedures of the Justice System	3
ADM JUS 005	Criminal Investigation	3
ADM JUS 911	Cooperative Education - Administration of Justice	1

Total: 16

ANTHROPOLOGY

For the Associate in Arts in Anthropology for Transfer Degree see page 45.

ART

For the Associate in Arts in Studio Arts for Transfer Degree see page 53.

ART: GRAPHIC DESIGN (AA)

(Program Code 101300, State Code 08553)

The Art: Graphic Design degree is structured to prepare students for positions in the industry. Specially structured courses in applied design and computer skills development, will ultimately lead to job candidacy for positions as Art Director, Graphic Designer, Pre-Press Production, Illustrator and Digital Designer. Portfolios are a requirement for both art school and university acceptance, and many of the graphic design discipline's courses provide projects perfect for inclusion in those portfolios. Most courses transfer to a UC or CSU which may satisfy lower division transfer requirements.

COMPLETE THE FOLLOWING 8 REQUIRED COURSES:

ART 201	Drawing I	3
ART 501	Beginning Two-Dimensional Design	3
ART 600	Typography I	3
ART 604*	Graphic Design I	3
ART 605*	Graphic Design II	3
ART 618	Advertising Photo/Graphics I	4
ART 620	Illustration I	3
ART 626	Art Production Methods I	3

COMPLETE 1 COURSE FROM THE FOLLOWING:

ART 101	Survey of Art History I	(3)
ART 102	Survey of Art History II	(3)

COMPLETE 2 COURSES FROM THE FOLLOWING:

ART 125	History of Photography I	(3)
ART 202*	Drawing II	(3)
ART 204*	Life Drawing I	(3)
ART 205*	Life Drawing II	(3)
ART 300	Introduction to Painting	(3)
ART 502	Beginning Three- Dimensional Design	(3)
ART 606*	Graphic Design III	(3)
ART 619	Advertising Photo/Graphics II	(4)
ART 621*	Illustration II	(3)

Total: 34-35

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*# Cross-referenced course. * This course has a prerequisite or corequisite.*

Art, *Continued next page*

DEGREES AND CREDIT CERTIFICATES

ART: STUDIO (AA)
(Program Code 100210, State Code 08543)

The AA in Art: Studio is designed to provide art students greater breadth and depth than the AA-T in Studio Arts. It is designed to provide students instruction to refine their craft in art production, especially to produce a competitive portfolio for submission for acceptance into an art program at a UC or a dedicated art school. An art education at Los Angeles Valley College provides pathways into graphic design, illustration, two-dimensional design, painting, three-dimensional design and sculpture, art gallery exhibition, and art history. An art education develops skills that can be applied in various creative areas, such as graphic design, illustration, motion picture, television, theater, fashion, fabrication, stage set design and of course fine art production. Art 521 and Art 531 are recommended, but they are not transferable to the UCs as part of the Studio Art major. Students applying for transfer to UC may benefit from taking up to 3 additional Art History courses in List B.

COMPLETE THE FOLLOWING 4 REQUIRED COURSES:

ART 201	Drawing I	3
ART 501	Beginning Two-Dimensional Design	3
ART 502	Beginning Three-Dimensional Design	3
ART 102	Survey of Art History II	3

LIST A: SELECT 4 COURSES:

ART 250	Introduction to Digital Art	3
ART 300	Introduction to Painting	3
ART 618	Advertising Photo/Graphics I	4
PHOTO 101	Beginning Digital Photography	3
ART 700	Introduction to Sculpture	3
ART 708	Introduction to Ceramics	3

LIST B: SELECT 4 COURSES:

ART 093	Introduction to Modern and Contemporary Asian Art	(3)
ART 111	History of Contemporary Art	(3)
ART 115	Modern Art	(3)
ART 202*	Drawing II	(3)
ART 203*	Drawing III	(3)
ART 204*	Life Drawing I	(3)
ART 205*	Life Drawing II	(3)
ART 206*	Life Drawing III	(3)
ART 207*	Life Drawing IV	(3)
ART 213*	Color Theory	(3)
ART 301	Watercolor Painting I	(3)
ART 302*	Watercolor Painting II	(3)
ART 303*	Watercolor Painting III	(3)
ART 304	Acrylic Painting I	(3)
ART 305*	Acrylic Painting II	(3)
ART 306	Acrylic Painting III	(3)
ART 307	Oil Painting I	(3)
ART 308*	Oil Painting II	(3)
ART 309*	Oil Painting III	(3)
ART 400	Introduction to Printmaking	(3)
ART 600	Typography I	(3)
ART 604	Graphic Design I	(3)
ART 701	Sculpture I	(3)
ART 702	Sculpture II	(3)
ART 709	Ceramics I	(3)
ART 710	Ceramics II	(3)
ART 711	Ceramics III	(3)

Or any course not used in List A

Total: 36

ART: THREE DIMENSIONAL DESIGN (AA)
(Program Code 100220, State Code 08544)

The Art: Three-Dimensional Design degree is structured to prepare students for positions in various 3D design- related industries (product design, maquette modeling, etc.). The program provides a comprehensive foundation in Arts Education in general and the 3-D Studio program in particular. Students engage in material studies and concept development that provide an understanding of the man-made physical world at large and broaden their skills, awareness and interest in disciplines such as Sculpture, Architecture, Industrial Design, Landscape Design, Product Design, Set Design and Special Effects found in the Film Industry. All courses transfer to a UC or CSU which may satisfy lower division transfer requirements.

COMPLETE THE FOLLOWING 8 REQUIRED COURSES:

ART 101	Survey of Art History I	3
ART 102	Survey of Art History II	3
ART 201	Drawing I	3
ART 501	Beginning Two-Dimensional Design	3
ART 502	Beginning Three-Dimensional Design	3
ART 700	Introduction to Sculpture	3
ART 701*	Sculpture I	3
ART 708	Introduction to Ceramics	3

COMPLETE 12 UNITS FROM THE FOLLOWING COURSES:

ART 185	Directed Study – Art	(1)
ART 213*	Color Theory	(3)
ART 285	Directed Study – Art	(2)
ART 385	Directed Study – Art	(3)
ART 521	Art Gallery Techniques	(3)
ART 531*	Art Gallery Techniques II	(3)
ART 702*	Sculpture II	(3)
ART 709*	Ceramics I	(3)
ART 710*	Ceramics II	(3)
ART 711*	Ceramics III	(3)

Total: 36

CERTIFICATE REQUIREMENTS:
CERTIFICATE OF ACHIEVEMENT IN GRAPHIC DESIGN
(Program Code 103000, State Code 08554)

The Certificate of Achievement in Graphic Design is structured to prepare students for positions in the industry. Specially structured courses in applied design and computer skills development will ultimately lead to positions such as: Art director; Illustrator; and Production Artist.

Estimated time to complete: 2 years.

COMPLETE THE FOLLOWING 9 REQUIRED COURSES:

ART 201	Drawing I	3
ART 501	Beginning Two-Dimensional Design	3
ART 600	Typography I	3
ART 604*	Graphic Design I	3
ART 605*	Graphic Design II	3
ART 606*	Graphic Design III	3
ART 618	Advertising Photo/Graphics I	4
ART 619	Advertising Photo/Graphics II	4
ART 626	Art Production Methods I	3

Total: 29

Cross-referenced course. * This course has a prerequisite or corequisite.

ART HISTORY

For the Associate in Arts in Art History for Transfer Degree see page 45.

ART HISTORY (AA)

(Program Code 100200, State Code 02961)

Art history is the academic study of the history of painting, sculpture, architecture, and other visual arts in their cultural and stylistic context. This AA is designed for students either interested in transferring to a UC or transitioning into entry level careers in art history and related industries. For students who want to transfer to UC Berkeley or UC Merced specifically, completion of Art 201 is strongly recommended. For students who want to teach at the elementary education level, Art 103 is strongly recommended. For students who want to pursue an entry level career track, Art 521, Art 531, and Art 112 are recommended, but they are not transferable to UCs as part of the Art History major. Students should consult with a faculty advisor and/or counselor in selecting electives to best meet their transfer or career goals.

COMPLETE THE FOLLOWING 2 REQUIRED COURSES:

ART 105	History of Asian Art	3
ART 109	The Arts of Africa, Oceania, and Ancient America	3

LIST A: COMPLETE 2 COURSES FROM THE FOLLOWING:

ART 101	Survey of Art History I	(3)
ART 102	Survey of Art History II	(3)
ART 115	History of Modern Art	(3)

LIST B: COMPLETE 2 COURSES FROM THE FOLLOWING:

ART 093	Introduction to Modern and Contemporary Asian Art	(3)
ART 094	Introduction to the Art of the Mediterranean	(3)
ART 103	Art Appreciation I	(3)
ART 111	History of Contemporary Art	(3)
ART 112	Current Art Events	(3)
ART 116	History of Women and Art	(3)
ART 125	History of Photography I	(3)
ART 201	Drawing I	(3)
ART 521	Art Gallery Techniques	(3)
ART 531*	Art Gallery Techniques II	(3)

Or any course not used in List A

Total: 18-19

BIOLOGY

For the Associate in Science in Biology for Transfer Degree see page 45.

BIOLOGY (AS)

(Program Code 040100, State Code 02941)

This degree can serve as the basis for further undergraduate education in biology.

COMPLETE THE FOLLOWING 4 REQUIRED COURSES:

BIOLOGY 006*	General Biology I	5
BIOLOGY 007*	General Biology II	5
CHEM 101*	General Chemistry I	5
CHEM 102*	General Chemistry II	5

Total: 20

BROADCASTING

For the Associate in Science in Film, Television, and Electronic Media for Transfer Degree see page 48.

The Broadcasting degree and certificate programs will enable students to gain valuable skills and creative techniques in the highly competitive and challenging world of Radio, Television, and Voice Over for over the air signals, cable, satellite and internet stations. The course offerings are designed to provide a general overview of the broadcasting industries and their inter-relationships, while also concentrating on specific job skills.

The estimated time to complete the certificates is: 2 years.

BROADCASTING (AA)

(Program Code 060400, State Code 08549)

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:

BRDCSTG 001	Fundamentals of Television and Radio Broadcasting	3
BRDCSTG 003	Voice and Diction for Radio and Television	3
BRDCSTG 010	Radio Programming and Production	3
BRDCSTG 025	Radio/TV/Film Writing	3
BRDCSTG 026	TV-Film Aesthetics	3
BRDCSTG 046	Fundamentals of Television Production	4

Total: 19

BROADCASTING: PERFORMANCE (AA)

(Program Code 060401, State Code 08537)

COMPLETE THE FOLLOWING 12 REQUIRED COURSES:

BRDCSTG 001	Fundamentals of Television and Radio Broadcasting	3
BRDCSTG 003	Voice and Diction for Radio and Television	3
BRDCSTG 005	Radio and Television Acting	3
BRDCSTG 010	Radio Programming and Production	3
BRDCSTG 017	Introduction to Voice-over	3
BRDCSTG 021	Advertising, Marketing, and Promotions for Broadcasting	3
BRDCSTG 022-1	Introductory Radio/Television Activities	1
BRDCSTG 022-2*	Beginning Radio/Television Activities	1
BRDCSTG 023	News, Sports, and Live Remote Broadcasting for Radio & Television	3
BRDCSTG 025	Radio/TV/Film Writing	3
BRDCSTG 026	TV-Film Aesthetics	3
BRDCSTG 028	Television Announcing I	3

Total: 32

BROADCASTING: RADIO (AA)

(Program Code 060410, State Code 08536)

COMPLETE THE FOLLOWING 12 REQUIRED COURSES:

BRDCSTG 001	Fundamentals of Television and Radio Broadcasting	3
BRDCSTG 003	Voice and Diction for Radio and Television	3
BRDCSTG 010	Radio Programming and Production	3
BRDCSTG 011	Digital Audio Editing and Production	3
BRDCSTG 017	Introduction to Voice-over	3
BRDCSTG 021	Advertising, Marketing, and Promotions for Broadcasting	3
BRDCSTG 022-1	Introductory Radio/Television Activities	1
BRDCSTG 022-2*	Beginning Radio/Television Activities	1
BRDCSTG 023	News, Sports, and Live Remote Broadcasting for Radio & Television	3
BRDCSTG 024	Podcasting Production for Radio & The Internet	3
BRDCSTG 025	Radio/TV/Film Writing	3
BRDCSTG 026	TV-Film Aesthetics	3

Total: 32

*# Cross-referenced course. * This course has a prerequisite or corequisite.*

DEGREES AND CREDIT CERTIFICATES

BROADCASTING: TELEVISION (AA)

(Program Code 060420, State Code 08535)

COMPLETE THE FOLLOWING 10 REQUIRED COURSES:

BRDCSTG 001	Fundamentals of Television and Radio Broadcasting	3
BRDCSTG 003	Voice and Diction for Radio and Television	3
BRDCSTG 005	Radio and Television Acting	3
BRDCSTG 021	Advertising, Marketing, and Promotions for Broadcasting	3
BRDCSTG 023	News, Sports, and Live Remote Broadcasting for Radio & Television	3
BRDCSTG 025	Radio/TV/Film Writing	3
BRDCSTG 026	TV-Film Aesthetics	3
BRDCSTG 028	Television Announcing I	3
BRDCSTG 046	Fundamentals of Television Production	4
BRDCSTG 047	Single Camera Production	4

Total: 32

CERTIFICATE REQUIREMENTS:

CERTIFICATE OF ACHIEVEMENT IN BROADCASTING: PERFORMANCE

(Program Code 060401, State Code 21887)

COMPLETE THE FOLLOWING 9 REQUIRED COURSES:

BRDCSTG 001	Fundamentals of Television and Radio Broadcasting	3
BRDCSTG 003	Voice and Diction for Radio and Television	3
BRDCSTG 005	Radio and Television Acting	3
BRDCSTG 010	Radio Programming and Production	3
BRDCSTG 017	Introduction to Voice-over	3
BRDCSTG 021	Advertising, Marketing, and Promotions for Broadcasting	3
BRDCSTG 022-1	Introductory Radio/Television Activities	1
BRDCSTG 023	News, Sports, and Live Remote Broadcasting for Radio & Television	3
BRDCSTG 028	Television Announcing I	3

Total: 25

CERTIFICATE OF ACHIEVEMENT IN BROADCASTING: RADIO

(Program Code 060410, State Code 21888)

COMPLETE THE FOLLOWING 9 REQUIRED COURSES:

BRDCSTG 001	Fundamentals of Television and Radio Broadcasting	3
BRDCSTG 003	Voice and Diction for Radio and Television	3
BRDCSTG 010	Radio Programming and Production	3
BRDCSTG 011	Digital Audio Editing and Production	3
BRDCSTG 017	Introduction to Voice-over	3
BRDCSTG 021	Advertising, Marketing, and Promotions for Broadcasting	3
BRDCSTG 022-1	Introductory Radio/Television Activities	1
BRDCSTG 023	News, Sports, and Live Remote Broadcasting for Radio & Television	3
BRDCSTG 024	Podcasting Production for Radio & The Internet	3

Total: 25

CERTIFICATE OF ACHIEVEMENT IN BROADCASTING: TELEVISION

(Program Code 060420, State Code 21889)

COMPLETE THE FOLLOWING 8 REQUIRED COURSES:

BRDCSTG 001	Fundamentals of Television and Radio Broadcasting	3
BRDCSTG 003	Voice and Diction for Radio and Television	3
BRDCSTG 005	Radio and Television Acting	3
BRDCSTG 021	Advertising, Marketing, and Promotions for Broadcasting	3
BRDCSTG 023	News, Sports, and Live Remote Broadcasting for Radio & Television	3
BRDCSTG 026	TV-Film Aesthetics	3
BRDCSTG 028	Television Announcing I	3
BRDCSTG 046	Fundamentals of Television Production	4

Total: 25

BUSINESS

For the Associate in Science in Business Administration for Transfer Degree see page 46.

For the Associate in Arts in Economics for Transfer Degree see page 47. (Also see Economics (AA) major)

ACCOUNTING (AA)

(Program Code 050200, State Code 02942)

This degree serves as the basis for further undergraduate education in accounting as well as preparing students for entry-level positions in accounting and tax preparation. It is designed to enable students to do accounting work in the public sector or in private companies. The degree provides a foundation for careers in business-related fields, such as Management, Marketing, Banking and Finance, and Law.

COMPLETE THE FOLLOWING 7 REQUIRED COURSES:

ACCTG 001	Introductory Accounting I	5
ACCTG 002*	Introductory Accounting II	5
ACCTG 003*	Intermediate Accounting I	3
ACCTG 008	Income Tax preparation	3
BUS 001	Introduction to Business	3
BUS 032	Business Communications	3
LAW 001	Business Law I	3

COMPLETE 1 COURSE FROM THE FOLLOWING:

ACCTG 011*	Cost Accounting	(3)
ACCTG 018*	Computerized Payroll Accounting	(3)
ACCTG 019	Ethics for Accounting Professionals	(3)

COMPLETE 2 COURSES FROM THE FOLLOWING:

BUS 038	Business Computations	(3)
CAOT 078*	Microcomputer Accounting Applications for the Electronic Office	(3)
CAOT 082	Microcomputer Software Survey in the Office	(3)
FINANCE 008	Personal Finance and Investments	(3)
MGMT 001	Principles of Management	(3)

Total: 34

Cross-referenced course. * This course has a prerequisite or corequisite.

BUSINESS: BANKING AND FINANCE (AA)

(Program Code 050400, State Code 02943)

This degree provides an in-depth understanding of the operations of money and capital markets, institutions and management. Students will be prepared for employment in such fields as investing, banking, corporate finance, insurance, credit unions, mortgage banking and related fields.

COMPLETE THE FOLLOWING 7 REQUIRED COURSES:

ACCTG 001*	Introductory Accounting I	5
ACCTG 002*	Introductory Accounting II	5
BUS 001	Introduction to Business	3
BUS 032	Business Communications	3
FINANCE 008	Personal Finance and Investments	3
LAW 001	Business Law I	3
MGMT 013	Small Business Entrepreneurship	3

COMPLETE 2 COURSES FROM THE FOLLOWING:

ECON 001*	Principles of Economics I	(3)
FINANCE 002	Investments	(3)
REAL ES 007*	Real Estate Finance I	(3)

COMPLETE 2 COURSES FROM THE FOLLOWING:

BUS 038	Business Computations	(3)
CAOT 082	Microcomputer Software Survey in the Office	(3)
FINANCE 008	Personal Finance and Investments	(3)
MGMT 001	Principles of Management	(3)

Total: 37

MANAGEMENT (AA)

(Program Code 050630, State Code 02945)

This degree serves as the basis for further undergraduate education in management and prepares students for first level management and supervisory positions, support positions in human resources, and for working in team based environments. Besides Business Management, students will use the computer and the internet, and integrate other Business disciplines, including, Accounting, Marketing, Banking and Finance, and Law.

COMPLETE THE FOLLOWING 8 REQUIRED COURSES:

ACCTG 001	Introductory Accounting I	5
BUS 001	Introduction to Business	3
BUS 032	Business Communications	3
LAW 001	Business Law I	3
MGMT 001	Principles of Management	3
MGMT 013	Small Business Entrepreneurship	3
MGMT 031	Human Relations for Employees	3
MGMT 033	Human Capital Management	3

COMPLETE 2 COURSES FROM THE FOLLOWING:

ACCTG 002*	Introductory Accounting II	(5)
FINANCE 002	Investments	(3)
INTBUS 001	International Trade	(3)
MARKET 021	Principles of Marketing	(3)
REAL ES 014	Property Management	(3)

COMPLETE 2 COURSES FROM THE FOLLOWING:

BUS 038	Business Computations	(3)
CAOT 082	Microcomputer Software Survey in the Office	(3)
FINANCE 008	Personal Finance and Investments	(3)

Total: 38-40

MARKETING (AA)

(Program Code 050900, State Code 02947)

This degree serves as the basis for further undergraduate education in marketing and prepares students for positions in sales, the retail industry, and entry level marketing jobs. Students will use the computer and the internet, and integrate other Business disciplines, including, Accounting, Management, Banking and Finance, and Law.

COMPLETE THE FOLLOWING 9 REQUIRED COURSES:

ACCTG 001	Introductory Accounting I	5
BUS 001	Introduction to Business	3
BUS 032	Business Communications	3
INTBUS 001	International Trade	3
LAW 001	Business Law I	3
MARKET 001	Principles of Selling	3
MARKET 011	Fundamentals of Advertising	3
MARKET 021	Principles of Marketing	3
MARKET 031	Retail Merchandising	3

COMPLETE 1 COURSE FROM THE FOLLOWING:

LAW 002	Business Law II	(3)
MGMT 001	Principles of Management	(3)
MGMT 013	Small Business Entrepreneurship I	(3)
REAL ES 001	Real Estate Principles	(3)

COMPLETE 2 COURSES FROM THE FOLLOWING:

BUS 038	Business Computations	(3)
CAOT 082	Microcomputer Software Survey in the Office	(3)
FINANCE 008	Personal Finance and Investments	(3)
MGMT 001	Principles of Management	(3)

Mgmt 001 may not be used in this area if already used above.

Total: 38

REAL ESTATE (AA)

(Program Code 051100, State Code 02948)

This degree is designed to meet the needs of persons currently employed in the Real Estate field and for individuals who want to enter the field. This program is of interest to those who either are now, or hope to become salespersons, brokers, appraisers, escrow officers, property managers, and community developers.

COMPLETE THE FOLLOWING 9 REQUIRED COURSES:

ACCTG 001	Introductory Accounting I	5
BUS 001	Introduction to Business	3
BUS 032	Business Communications	3
LAW 001	Business Law I	3
REAL ES 001	Real Estate Principles	3
REAL ES 003	Real Estate Practices	3
REAL ES 005	Legal Aspects of Real Estate I	3
REAL ES 007*	Real Estate Finance I	3
REAL ES 009*	Real Estate Appraisal I	3

COMPLETE 1 COURSE FROM THE FOLLOWING:

REAL ES 014	Property Management	(3)
REAL ES 021*	Real Estate Economics	(3)

COMPLETE 2 COURSES FROM THE FOLLOWING:

ACCTG 015*	Tax Accounting I	(3)
BUS 038	Business Computations	(3)
CAOT 082	Microcomputer Software Survey in the Office	(3)
FINANCE 008	Personal Finance and Investments	(3)
LAW 002	Business Law II	(3)
MGMT 001	Principles of Management	(3)

Total: 38

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*# Cross-referenced course. * This course has a prerequisite or corequisite.*

DEGREES AND CREDIT CERTIFICATES

CERTIFICATE REQUIREMENTS:
CERTIFICATE OF ACHIEVEMENT IN ACCOUNTING

(Program Code 050200, State Code 21874)

This certificate serves as the basis for further undergraduate education in accounting as well as preparing students for entry-level positions in accounting and tax preparation. It is designed to enable students to do accounting work in the public sector or in private companies. The certificate provides a foundation for careers in business-related fields, such as Management, Marketing, Banking and Finance, and Law.

Estimated time to complete: 1.5 years

COMPLETE THE FOLLOWING 4 REQUIRED COURSES:
ACCTG 001	Introductory Accounting I	5
ACCTG 002*	Introductory Accounting II	5
ACCTG 003*	Intermediate Accounting I	3
ACCTG 008	Income Tax Preparation	3

COMPLETE 2 COURSES FROM THE FOLLOWING:
ACCTG 011*	Cost Accounting	(3)
ACCTG 018*	Computerized Payroll Accounting	(3)
ACCTG 019	Ethics for Accounting Professionals	(3)
CAOT 078	Microcomputer Accounting Applications for the Electronic Office	(3)
CAOT 082	Microcomputer Software Survey in the Office	(3)
CAOT 085	Microcomputer Office Applications: Spreadsheet	(3)

Total: 22

CERTIFICATE OF ACHIEVEMENT IN BANKING AND FINANCE

(Program Code 050404, State Code 08530)

This certificate prepares students for basic entry-level positions in the financial services industry, including banking, insurance, brokerage and real estate.

Estimated time to complete: 1 year.

COMPLETE THE FOLLOWING 3 REQUIRED COURSES:
ACCTG 001	Introductory Accounting I	5
FINANCE 002	Investments	3
FINANCE 008	Personal Finance and Investment	3

COMPLETE 8-9 UNITS FROM THE FOLLOWING:
ACCTG 002*	Introductory Accounting II	(5)
ACCTG 015*	Tax Accounting I	(3)
BUS 001	Introduction to Business	(3)
BUS 038	Business Computations	(3)
LAW 001	Business Law I	(3)
REAL ES 007*	Real Estate Finance I	(3)

Total: 19-20

CERTIFICATE OF ACHIEVEMENT IN BUSINESS MANAGEMENT

(Program Code 050600, State Code 02944)

This certificate prepares students for first-level management and supervisory jobs, as well as, support posts in human resources, and positions them for success in team-based work environments. Students will use the computer, the internet, and relevant computer applications.

Estimated time to complete: 1 year.

COMPLETE THE FOLLOWING 5 REQUIRED COURSES:
ACCTG 001	Introductory Accounting I	5
BUS 001	Introduction to Business	3
BUS 032	Business Communication	3
LAW 001	Business Law I	3
MGMT 001	Principles of Management	3

COMPLETE 1 COURSE FROM THE FOLLOWING:
MARKET 021	Principles of Marketing	(3)
MGMT 013	Small Business Entrepreneurship	(3)
MGMT 031	Human Relations for Employees	(3)

Total: 20

CERTIFICATE OF ACHIEVEMENT IN MARKETING

(Program Code 050900, State Code 21876)

This certificate prepares students for advancement as well as positions in sales, the retail industry, and entry level marketing jobs. Students will use the computer, the internet, and relevant computer applications.

Estimate time to complete: 1 year.

COMPLETE THE FOLLOWING 5 REQUIRED COURSES:
INTBUS 001	International Trade	3
MARKET 001	Principles of Selling	3
MARKET 011	Fundamentals of Advertising	3
MARKET 021	Principles of Marketing	3
MARKET 031	Retail Merchandising	3

COMPLETE 1 COURSE FROM THE FOLLOWING:
BUS 001	Introduction to Business	(3)
MGMT 001	Principles of Management	(3)
MGMT 013	Small Business Entrepreneurship	(3)
REAL ES 001	Real Estate Principles	(3)

Total: 18

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*# Cross-referenced course. * This course has a prerequisite or corequisite.*

DEGREES AND CREDIT CERTIFICATES

CERTIFICATE OF ACHIEVEMENT IN PROPERTY MANAGEMENT
(Program Code 051101, State Code 21411)

This certificate is designed for students and investors to provide skills needed to become manager of investment property or property management such as a homeowner association. Students will receive career preparation for entry-level positions in property management.

Estimated time to complete: 2 years.

COMPLETE THE FOLLOWING 4 REQUIRED COURSES:
REAL ES 001	Real Estate Principles	3
REAL ES 005	Legal Aspects of Real Estate I	3
REAL ES 007*	Real Estate Finance I	3
REAL ES 014	Property Management	3

COMPLETE 2 COURSES FROM THE FOLLOWING:
ACCTG 001	Introductory Accounting I	(5)
BUS 001	Introduction to Business	(3)
MGMT 001	Principles of Management	(3)
REAL ES 021*	Real Estate Economics	(3)

Total: 18-20

CERTIFICATE OF ACHIEVEMENT IN REAL ESTATE
(Program Code 051100, State Code 21877)

This certificate provides entry-level skills for those seeking careers in the real estate industry. Students taking Real Es 1, Real Es 3, and a real estate elective qualify to seek a California Real Estate Salesperson's License. Most of the other real estate courses that are needed for the Real Estate Certificate will be helpful to those students seeking a California Real Estate Broker's License.

Estimated time to complete: 2 years.

COMPLETE THE FOLLOWING 5 REQUIRED COURSES:
REAL ES 001	Real Estate Principles	3
REAL ES 003	Real Estate Practices	3
REAL ES 005	Legal Aspects of Real Estate I	3
REAL ES 007*	Real Estate Finance I	3
REAL ES 009*	Real Estate Appraisal I	3

COMPLETE 1 COURSE FROM THE FOLLOWING:
REAL ES 014	Property Management	(3)
REAL ES 021*	Real Estate Economics	(3)

Total: 18

CERTIFICATE OF ACHIEVEMENT IN RETAIL MANAGEMENT
(Program Code 050650, State Code 33859)

This Certificate prepares students for career opportunities and advancement in the retail industry. Retail managers work in many settings, including grocery, fashion, specialty food and beverage, home and interiors, technology, services, general retailing, and e-commerce. The program provides students with skills in marketing, management, technology, and budgeting. Program completion leads to a certificate awarded by the College and an Industry certificate awarded by the Western Association of Food Chains.

Estimated time to complete: 1.5 to 2 years.

COMPLETE THE FOLLOWING 8 REQUIRED COURSES:
BUS 032	Business Communications	3
BUS 038	Business Computations	3
CAOT 082	Microcomputer Software Survey In The Office	3
MGMT 001	Principles Of Management	3
MGMT 031	Human Relations For Employees	3
MGMT 033	Human Capital Management	3
MARKET 021	Principles Of Marketing	3
MARKET 031	Retail Merchandising	3

Total: 24

*# Cross-referenced course. * This course has a prerequisite or corequisite.*

CHEMISTRY
CHEMISTRY (AS)
(Program Code 190500, State Code 02977)

Students will be introduced to the fundamental concepts of chemistry including atomic and molecular structure, nomenclature of inorganic and organic compounds, stoichiometry, gas laws, solution chemistry and the physical properties of gases, liquids, solids and solutions. Students will also be introduced to a variety of chemical reactions encountered in inorganic and organic chemistry. Completion of these courses along with several general education requirements partially meets the guidelines for the University of California Transfer Pathway in Chemistry. The general education requirements that must accompany these listed courses include 2 college level courses in English composition and four courses from the categories of Arts and Humanities; Social and Behavioral Sciences; and Physical and Biological Sciences. Students should also consider taking Physics 39 and Math 263 prior to transfer.

COMPLETE THE FOLLOWING 8 REQUIRED COURSES:
CHEM 101*	General Chemistry I	5
CHEM 102*	General Chemistry II	5
CHEM 211*	Organic Chemistry for Science Majors I	5
CHEM 212*	Organic Chemistry for Science Majors II	5
MATH 261*	Calculus I	5
MATH 262*	Calculus II	5
PHYSICS 037*	Physics for Engineers and Scientists I	5
PHYSICS 038*	Physics for Engineers and Scientists II	5

Total: 40

CHICANO STUDIES
CHICANO STUDIES (AA)
(Program Code 220300, State Code 35201)

An Associates degree in Chicano Studies provides students with theoretical frameworks through which they are able to explore, examine, and analyze the experiences of Mexican Americans in the United States. Students will build skills at communicating with diverse audiences and examining multiple sources of information and data. This degree equips students to enter a multi-ethnic workforce and more effectively work toward social justice. Students who earn this degree will be well prepared for careers in non-profit organizations, education, social work, human services, health care, law and/ or policy, planning and development. This degree can also serve as the basis for further undergraduate education in Chicano Studies and similar fields.

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:
CHICANO 002	The Mexican-American in Contemporary Society	3
CHICANO 007	The Mexican-American in the History of the United States I	3
CHICANO 008	The Mexican-American in the History of the United States II	3
CHICANO 037	Chicano Literature	3
CHICANO 044	Mexican Civilization	3
CHICANO 054	Mexican-American Arts in American Culture	3

COMPLETE 1 COURSE FROM THE FOLLOWING:
CHICANO 042#	Contemporary Mexican Literature	(3)
SPANISH 002*	Elementary Spanish II	(5)
SPANISH 003*	Intermediate Spanish I	(5)
SPANISH 004*	Intermediate Spanish II	(5)
SPANISH 035	Spanish for Spanish Speakers I	(5)
SPANISH 036*	Spanish for Spanish Speakers II	(5)
SPANISH 037*	Composition and Conversation for Spanish Speakers	(5)

Total: 21 - 23

DEGREES AND CREDIT CERTIFICATES

CHILD DEVELOPMENT

For the Associate in Science in Early Childhood Education for Transfer Degree see page 47.

These degrees prepare students for employment in professions in early childhood education and the future option of a Bachelor's Degree. All courses are CSU transferable and may satisfy lower division requirements. The Special Education option prepares students with an interest in working with children with special needs.

CHILD DEVELOPMENT (AA)

(Program Code 130500, State Code 08559)

This degree prepares students for employment in professions in early childhood education programs that require only an AA degree. Students must participate in two semesters of Practicum Experience. Elective units selected by students should be chosen based on an area of interest, which include: infant and toddlers, program director, school-age care such as after-school programs, special education or early literacy and language development.

COMPLETE THE FOLLOWING 5 REQUIRED COURSES:

CH DEV 001*	Child Growth and Development	3
CH DEV 003	Creative Experiences for Children I	3
CH DEV 011	Child, Family and Community	3
CH DEV 022*	Practicum in Child Development I	4
CH DEV 023*	Practicum in Child Development II	4

COMPLETE AT LEAST 19 UNITS FROM THE FOLLOWING COURSES:

CH DEV 002	Early Childhood: Principles and Practices	(3)
CH DEV 003	Creative Experiences for Children I	(3)
CH DEV 007	Introduction to Curriculum in Early Childhood Education	(3)
CH DEV 010	Health, Safety and Nutrition	(3)
CH DEV 029*	Infant Toddler Practicum	(3)
CH DEV 030*	Infant/Toddler Development	(3)
CH DEV 031*	Infant/Toddler Care and Education	(3)
CH DEV 034*	Observing and Recording Children's Behavior	(3)
CH DEV 035	Fostering Literacy Development in Young Children	(3)
CH DEV 036	Literature for Early Childhood	(1)
CH DEV 037	Literature for School Age Children	(2)
CH DEV 038*	Administration & Supervision of Early Childhood Programs I	(3)
CH DEV 039*	Administration II: Personnel and Leadership in Early Childhood Education	(3)
CH DEV 042	Teaching in a Diverse Society	(3)
CH DEV 044*	Early Intervention for Children with Specials Needs	(3)
CH DEV 045	Programs for Children with Special Needs	(3)
CH DEV 047	School Age Programs II	(3)
CH DEV 048	Positive Guidance in Early Childhood Settings	(3)
CH DEV 053	Parenting	(3)
CH DEV 172	Introduction to Careers in Child Development	(1)
SOC 012	Marriage and Family Life	(3)

Total: 36

CHILD DEVELOPMENT: EARLY CHILDHOOD EDUCATION (AA)

(Program Code 130501, State Code 02980)

COMPLETE THE FOLLOWING 3 REQUIRED COURSES:

CH DEV 001*	Child Growth and Development	3
CH DEV 003	Creative Experiences for Children I	3
CH DEV 011	Child, Family and Community	3

COMPLETE 12 UNITS FROM THE FOLLOWING COURSES:

CH DEV 002	Early Childhood: Principles and Practices	(3)
CH DEV 003	Creative Experiences for Children I	(3)
CH DEV 007	Introduction to Curriculum in Early Childhood Education	(3)
CH DEV 010	Health, Safety and Nutrition	(3)
CH DEV 029*	Infant Toddler Practicum	(3)
CH DEV 030*	Infant and Toddler Studies I	(3)
CH DEV 031*	Infant and Toddler Studies II	(3)
CH DEV 034*	Observing and Recording Children's Behavior	(3)
CH DEV 035	Fostering Literacy Development in Young Children	(3)
CH DEV 036	Literature for Early Childhood	(1)
CH DEV 037	Literature for School Age Children	(2)
CH DEV 038*	Administration & Supervision of Early Childhood Programs I	(3)
CH DEV 039*	Administration II: Personnel and Leadership in Early Childhood Education	(3)
CH DEV 042	Teaching in a Diverse Society	(3)
CH DEV 047	School Age Programs II	(3)
CH DEV 048	Positive Guidance in Early Childhood Settings	(3)
CH DEV 053	Parenting	(3)
SOC 012	Marriage and Family Life	(3)

Total: 21

CHILD DEVELOPMENT: SPECIAL EDUCATION (AA)

(Program Code 130520, State Code 08558)

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:

CH DEV 001*	Child Growth and Development	3
CH DEV 003	Creative Experiences for Children I	3
CH DEV 010	Health, Safety and Nutrition	3
CH DEV 011	Child, Family and Community	3
CH DEV 044*	Early Intervention for Children with Special Needs	3
CH DEV 045	Programs for Children with Special Needs	3

COMPLETE 1 COURSE FROM THE FOLLOWING:

CH DEV 007	Introduction to Curriculum in Early Childhood Education	(3)
CH DEV 034*	Observing and Recording Children's Behavior	(3)
CH DEV 042	Teaching in a Diverse Society	(3)
CH DEV 048	Positive Guidance in Early Childhood Settings	(3)
PSYCH 014	Abnormal Psychology	(3)
PSYCH 017	The Exceptional Child	(3)
SOC 012	Marriage and Family Life	(3)

Total: 21

Cross-referenced course. * This course has a prerequisite or corequisite.

CERTIFICATE PROGRAMS

All certificates meet State Department of Social Services requirements for positions in private programs as defined in Title 22.

All courses must be completed with a grade of "C" or better

CERTIFICATE OF ACHIEVEMENT IN CHILD DEVELOPMENT: ASSOCIATE TEACHER, PRESCHOOL (A)

(Program Code 130543, State Code 10762)

Completion of 12 units meets the minimum education requirements for associate teacher position in private early childhood education programs. These courses may also meet requirements for teacher aide positions in federal or state funded early education programs.

Estimated time to complete: 1 year.

COMPLETE THE FOLLOWING 3 REQUIRED COURSES:

CH DEV 001*	Child Growth and Development	3
CH DEV 003	Creative Experiences for Children I	3
CH DEV 011	Child, Family and Community	3

COMPLETE 1 COURSE FROM THE FOLLOWING:

CH DEV 002	Early Childhood: Principles and Practices	(3)
CH DEV 007	Introduction to Curriculum in Early Childhood Education	(3)
CH DEV 010	Health, Safety and Nutrition	(3)
CH DEV 035	Fostering Literacy Development in Young Children	(3)
CH DEV 042	Teaching in a Diverse Society	(3)
CH DEV 048	Positive Guidance in Early Childhood Settings	(3)

Total: 12

CERTIFICATE OF ACHIEVEMENT IN CHILD DEVELOPMENT: DIRECTOR, PRESCHOOL (B)

(Program Code 130580, State Code 10763)

Completion of 15 units meets the minimum education requirements for position of director in private early childhood education programs.

Estimated time to complete: 1 year.

COMPLETE THE FOLLOWING 4 REQUIRED COURSES:

CH DEV 001*	Child Growth and Development	3
CH DEV 003	Creative Experiences for Children I	3
CH DEV 011	Child, Family and Community	3
CH DEV 038*	Administration & Supervision of Early Childhood Programs I	3

COMPLETE 1 COURSE FROM THE FOLLOWING

CH DEV 002	Early Childhood: Principles and Practices	(3)
CH DEV 007	Introduction to Curriculum in Early Childhood Education	(3)
CH DEV 010	Health, Safety and Nutrition	(3)
CH DEV 034*	Observing and Recording Children's Behavior	(3)
CH DEV 035	Fostering Literacy Development in Young Children	(3)
CH DEV 039*	Administration II: Personnel and Leadership in Early Childhood Education	(3)
CH DEV 042	Teaching in a Diverse Society	(3)
CH DEV 044*	Early Intervention for Children with Special Needs	(3)
CH DEV 045	Programs for Children with Special Needs	(3)
CH DEV 048	Positive Guidance in Early Childhood Settings	(3)

Total: 15

CERTIFICATE OF ACHIEVEMENT IN CHILD DEVELOPMENT: SCHOOL AGE PROGRAMS TEACHER, DAY CARE (C)

(Program Code 130551, State Code 10764)

Completion of 15 units meets the minimum education requirements for position of teacher in private programs for school-age care, such as before or after school programs.

Estimated time to complete: 1 year.

COMPLETE THE FOLLOWING 4 REQUIRED COURSES:

CH DEV 001*	Child Growth and Development	3
CH DEV 003	Creative Experiences for Children I	3
CH DEV 011	Child, Family and Community	3
CH DEV 047	School Age Programs II	3

COMPLETE 3 UNITS FROM THE FOLLOWING COURSES:

CH DEV 002	Early Childhood: Principles and Practices	(3)
CH DEV 007	Introduction to Curriculum in Early Childhood Education	(3)
CH DEV 010	Health, Safety and Nutrition	(3)
CH DEV 035	Fostering Literacy Development in Young Children	(3)
CH DEV 036	Literature for Early Childhood	(1)
CH DEV 037	Literature for School Age Children	(2)
CH DEV 042	Teaching in a Diverse Society	(3)
CH DEV 044*	Early Intervention for Children with Special Needs	(3)
CH DEV 045	Programs for Children with Special Needs	(3)
CH DEV 048	Positive Guidance in Early Childhood Settings	(3)

Total: 15

CERTIFICATE OF ACHIEVEMENT IN CHILD DEVELOPMENT: INFANT/TODDLER CARE TEACHER (D)

(Program Code 130591, State Code 10765)

Completion of 15 units meets the minimum education requirements for position of infant or toddler care teacher in private programs.

Estimated time to complete: 1 year.

COMPLETE THE FOLLOWING 4 REQUIRED COURSES:

CH DEV 001*	Child Growth and Development	3
CH DEV 003	Creative Experiences for Children I	3
CH DEV 011	Child, Family and Community	3
CH DEV 029*	Infant Toddler Practicum	3

COMPLETE 1 COURSE FROM THE FOLLOWING:

CH DEV 030*	Infant/ Toddler Development	(3)
CH DEV 031*	Infant/ Toddler Care and Education	(3)

Total: 15

Cross-referenced course. * This course has a prerequisite or corequisite.

DEGREES AND CREDIT CERTIFICATES

SKILLS CERTIFICATE IN CHILD DEVELOPMENT: ASSOCIATE TEACHER, PRESCHOOL, LITERACY EMPHASIS (E)

(Program Code 130505)

This certificate provides emphasis on language and literacy development in young children. Completion of 12 units meets the minimum education requirements for associate teacher position in private early childhood education programs. The courses may also meet requirements for teacher aide positions in federal or state funded early education programs.

Estimated time to complete: 1 year.

COMPLETE THE FOLLOWING 2 REQUIRED COURSES:
CH DEV 001*	Child Growth and Development	3
CH DEV 011	Child, Family and Community	3

COMPLETE 3 UNITS FROM THE FOLLOWING COURSES:
CH DEV 035	Fostering Literacy Development in Young Children	(3)
CH DEV 036	Literature for Early Childhood	(1)
CH DEV 037	Literature for School Age Children	(2)

Total: 9

SKILLS CERTIFICATE IN CHILD DEVELOPMENT: ASSOCIATE TEACHER, PRESCHOOL, SPECIAL EDUCATION EMPHASIS (F)

(Program Code 130522)

This certificate provides emphasis on working with children with special needs. Completion of 12 units meets the minimum education requirements for associate teacher position in private early childhood education programs. The courses also meet requirements for teacher aide positions in federal or state funded early education programs.

Estimated time to complete: 1 year.

COMPLETE THE FOLLOWING 4 REQUIRED COURSES:
CH DEV 001*	Child Growth and Development	3
CH DEV 003	Creative Experiences for Children I OR	(3)
CH DEV 007	Introduction to Curriculum in Early Childhood Education	(3)
CH DEV 011	Child, Family and Community	3

COMPLETE 1 COURSE FROM THE FOLLOWING:
CH DEV 044*	Early Intervention for Children with Special Needs	(3)
CH DEV 045	Programs for Children with Special Needs	(3)

Total: 15

CERTIFICATE OF ACHIEVEMENT IN CHILD DEVELOPMENT: TEACHER

(Program Code 130502, State Code 10761)

With additional G.E. units and required experience, student will be eligible for Child Development Teacher Permit as defined under Title 5. This permit is required for teacher positions in federal or state funded early education programs.

Estimated time to complete: 2 years.

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:
CH DEV 001*	Child Growth and Development	3
CH DEV 003	Creative Experiences for Children I OR	(3)
CH DEV 007	Introduction to Curriculum in Early Childhood Education	(3)
CH DEV 011	Child, Family and Community	3
CH DEV 022*	Practicum in Child Development I	4
CH DEV 023*	Practicum in Child Development II	4
ENGLISH 101*	College Reading and Composition I	3

COMPLETE 7-9 UNITS FROM THE FOLLOWING COURSES:
CH DEV 002	Early Childhood: Principles and Practices	(3)
CH DEV 003	Creative Experiences for Children I	(3)
CH DEV 007	Introduction to Curriculum in Early Childhood Education	(3)
CH DEV 010	Health, Safety and Nutrition	(3)
CH DEV 029*	Infant Toddler Practicum	(3)
CH DEV 030*	Infant/ Toddler Development	(3)
CH DEV 031*	Infant/ Toddler Care and Education	(3)
CH DEV 034*	Observing and Recording Children's Behavior	(3)
CH DEV 035	Fostering Literacy Development in Young Children	(3)
CH DEV 036	Literature for Early Childhood	(1)
CH DEV 037	Literature for School Age Children	(2)
CH DEV 038*	Administration & Supervision of Early Childhood Programs I	(3)
CH DEV 039*	Administration II: Personnel and Leadership in Early Childhood Education	(3)
CH DEV 042	Teaching in a Diverse Society	(3)
CH DEV 044*	Early Intervention for Children with Special Needs	(3)
CH DEV 045	Programs for Children with Special Needs	(3)
CH DEV 047	School Age Programs II	(3)
CH DEV 048	Positive Guidance in Early Childhood Settings	(3)
CH DEV 053	Parenting	(3)

Total: 27-29

*# Cross-referenced course. * This course has a prerequisite or corequisite.*

CINEMA

Please also see the Media Arts section for more degree/certificate options.

CINEMA ARTS PRODUCTION (AA)

(Program Code 061220, State Code 02951)

The successful completion of this degree will give students a thorough background in the aesthetics and history of cinema, experience in cinema picture and sound pre-production, production, and post production, and advanced filmmaking experience as well as the possibility of an internship in the entertainment field.

Estimated time to complete: 2 years.

COMPLETE THE FOLLOWING 5 REQUIRED COURSES:

CINEMA 105	History of Motion Pictures	3
CINEMA 107	Understanding Motion Pictures	3
CINEMA 125*	Film Production Workshop	3
MEDIART 100	The Entertainment Industry: Breaking In	3
MEDIART 116	Introduction to Screenwriting	3

COMPLETE 1 COURSE FROM EACH LIST:

List A (Select 1 Course)
CINEMA 101	Beginning Film Production	(3)
MEDIART 101*	Introduction to Digital Film Production	(3)

List B (Select 1 Course)
CINEMA 110*	Motion Picture Sound	(3)
MEDIART 110*	Digital Film Sound	(3)

List C (Select 1 Course)
CINEMA 115*	Cinematography	(3)
MEDIART 115*	Digital Cinematography	(3)

List D (Select 1 Course)
CINEMA 120*	Film Editing	(3)
MEDIART 120*	Digital Film Editing	(3)

List E (Select 1 Course)
CINEMA 102	Film Genres	(3)
CINEMA 103	Diversity in Film	(3)
CINEMA 104	History of Documentary Film	(3)
CINEMA 106	The Art of Animation and Effects	(3)
CINEMA 111	Developing Content for Movies	(3)
CINEMA 113	History of Animation	(3)
CINEMA 114	Master Filmmakers	(3)
CINEMA 150*	Cinema Internship	(3)
MEDIART103	Digital Imaging and Motion Graphics for Film and Television	(3)
MEDIART 104	Photoshop for Movies and Television	(3)
MEDIART 105*	Visual Effects and Color Grading	(3)
MEDIART 113	Low Budget Producing	(3)
MEDIART 118*	Directing	(3)
MEDIART 129	Mythology, Spirituality and the Art of Story	(3)
MEDIART 130*	Advanced Screenwriting	(3)
MEDIART 131*	Advanced Episodic Writing	(3)

Total: 30

CINEMA ARTS THEORY (AA)

(Program Code 061210, State Code 37295)

The successful completion of this degree will give students a thorough understanding of the aesthetics and history of cinema.

Estimated time to complete: 1 year.

COMPLETE THE FOLLOWING 2 REQUIRED COURSES:
CINEMA 105	History of Motion Pictures	3
CINEMA 107	Understanding Motion Pictures	3

COMPLETE 4 COURSES FROM THE FOLLOWING:
CINEMA 102	Film Genres	(3)
CINEMA 103	Diversity in Cinema	(3)
CINEMA 104	History of Documentary Film	(3)
CINEMA 106	The Art of Animation and Effects	(3)
CINEMA 113	History of Animation	(3)
CINEMA 114	Master Filmmakers	(3)

Total 18

CERTIFICATE REQUIREMENTS:
CERTIFICATE OF ACHIEVEMENT IN CINEMA ARTS THEORY

(Program Code 061200, State Code 31905)

The successful completion of this degree will give students a thorough understanding of the aesthetics and history of cinema.

Estimated time to complete: 1 year.

COMPLETE THE FOLLOWING 2 REQUIRED COURSES:
CINEMA 105	History of Motion Pictures	3
CINEMA 107	Understanding Motion Pictures	3

COMPLETE 4 COURSES FROM THE FOLLOWING:
CINEMA 102	Film Genres	(3)
CINEMA 103	Diversity in Cinema	(3)
CINEMA 104	History of Documentary Film	(3)
CINEMA 106	The Art of Animation and Effects	(3)
CINEMA 113	History of Animation	(3)
CINEMA 114	Master Filmmakers	(3)

Total: 18

*# Cross-referenced course. * This course has a prerequisite or corequisite.*

Cinema, *Continued next page*

DEGREES AND CREDIT CERTIFICATES

CERTIFICATE OF ACHIEVEMENT IN CINEMA ARTS PRODUCTION

(Program Code 061221, State Code 21890)

The successful completion of this degree will give students a thorough background in the aesthetics and history of cinema, experience in cinema picture and sound pre-production, production, and post production, and advanced filmmaking experience as well as the possibility of an internship in the entertainment field.

Estimated time to complete: 2 years.

COMPLETE THE FOLLOWING 5 REQUIRED COURSES:

CINEMA 105	History of Motion Pictures	3
CINEMA 107	Understanding Motion Pictures	3
CINEMA 125*	Film Production Workshop	3
MEDIART 100	The Entertainment Industry: Breaking In	3
MEDIART 116	Introduction to Screenwriting	3

COMPLETE 1 COURSE FROM EACH LIST:

List A (Select 1 Course)

CINEMA 101	Beginning Film Production	(3)
MEDIART 101*	Introduction to Digital Film/Video Production	(3)

List B (Select 1 Course)

CINEMA 110*	Motion Picture Sound	(3)
MEDIART 110*	Digital Film Sound	(3)

List C (Select 1 Course)

CINEMA 115*	Cinematography	(3)
MEDIART 115*	Digital Cinematography	(3)

List D (Select 1 Course)

CINEMA 120*	Film Editing	(3)
MEDIART 120*	Digital Film Editing	(3)

List E (Select 1 Course)

CINEMA 102	Film Genres	(3)
CINEMA 103	Diversity in Film	(3)
CINEMA 104	History of Documentary Film	(3)
CINEMA 106	The Art of Animation and Effects	(3)
CINEMA 111	Developing Content for Movies	(3)
CINEMA 113	History of Animation	(3)
CINEMA 114	Master Filmmakers	(3)
CINEMA 150*	Cinema Internship	(3)
MEDIART 103	Digital Imaging and Motion Graphics for Film and Television	(3)
MEDIART 104	Photoshop for Movies and Television	(3)
MEDIART 105*	Visual Effects and Color Grading	(3)
MEDIART 113	Low Budget Producing	(3)
MEDIART 118*	Directing	(3)
MEDIART 129	Mythology, Spirituality and the Art of Story	(3)
MEDIART 130*	Advanced Screenwriting	(3)
MEDIART 131*	Advanced Episodic Writing	(3)

Total: 30

Please also see the Media Arts section for more degree/certificate options.

COMMUNICATION STUDIES

For the Associate in Arts in Communication Studies for Transfer Degree see page 46.

COMPUTER APPLICATIONS OFFICES TECHNOLOGIES

CAOT: ADMINISTRATIVE ASSISTANT (AA)

(Program Code 051401, State Code 08531)

Students will be prepared for employment using automated systems and procedures. Emphasis is placed on the development of language skills, records management, and the use of computer-based word processing, spreadsheet, database, and accounting software in the performance of office functions. Students are prepared to assume general office duties and decision-making office responsibilities. Students completing this option are prepared for positions such as administrative assistant, executive assistant, word information processor, office manager, and office systems specialist.

COMPLETE THE FOLLOWING 12 REQUIRED COURSES:

CAOT 002	Computer Keyboarding and Document Applications II	3
CAOT 031	Business English	3
CAOT 032	Business Communications	3
CAOT 033	Records Management and Electronic Filing	3
CAOT 037	Introduction to Bookkeeping	3
CAOT 047*	Applied Office Practice	2
CAOT 082	Microcomputer Software Survey in the Office	3
CAOT 084	Microcomputer Office Applications: Word Processing	3
CAOT 085	Microcomputer Office Applications: Spreadsheet	3
CAOT 092	Computer Windows Application	2
CAOT 097	Internet for Business	3
CAOT 108	Presentation Design for the Office	2

COMPLETE 2 COURSES FROM THE FOLLOWING:

CAOT 001	Computer Keyboarding and Document Applications I	(3)
CAOT 043*	Office Procedures	(3)
CAOT 078*	Microcomputer Acctg Applications for the Electronic Office	(3)
CAOT 086	Microcomputer Office Applications: Database	(3)
CAOT 123	Web Design Applications for the Office Professional	(3)
CAOT 124	Introduction to Image Creation for the Office Professional	(3)

Total: 38

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*# Cross-referenced course. * This course has a prerequisite or corequisite.*

CAOT, *Continued next page*

CAOT: COMPUTER APPLICATIONS SPECIALIST (AA)

(Program Code 051402, State Code 08532)

Students who pursue this option will gain a comprehensive knowledge and understanding of the automated office environment and will be prepared for positions such as: Internet Specialist; Executive Assistant; Administrative Assistant; Office Systems Specialist; or Computer Applications Specialist. Students will develop knowledge and skills in word processing, spreadsheet, database, presentation, and electronic accounting software applications.

COMPLETE THE FOLLOWING 11 REQUIRED COURSES:

CAOT 002	Computer Keyboarding and Document Applications II	3
CAOT 031	Business English	3
CAOT 032	Business Communications	3
CAOT 037	Introduction to Bookkeeping	3
CAOT 078*	Microcomputer Acctg Applications for the Electronic Office	3
CAOT 082	Microcomputer Software Survey in the Office	3
CAOT 084	Microcomputer Office Applications: Word Processing	3
CAOT 085	Microcomputer Office Applications: Spreadsheet	3
CAOT 092	Computer Windows Application	2
CAOT 097	Internet for Business	3
CAOT 108	Presentation Design for the Office	2

COMPLETE 1 COURSE FROM THE FOLLOWING:

CAOT 123	Web Design Applications for the Office Professional	(3)
CAOT 124	Introduction to Image Creation for the Office Professional	(3)

COMPLETE 2 COURSES FROM THE FOLLOWING:

CAOT 001	Computer Keyboarding and Document Applications I	(3)
CAOT 033	Records Management and Filing	(3)
CAOT 043*	Office Procedures	(3)
CAOT 047*	Applied Office Practice	(2)
CAOT 086	Microcomputer Office Applications: Database	(3)
CAOT 123	Web Design Applications for the Office Professional	(3)
CAOT 124	Introduction to Image Creation for the Office Professional	(3)

Total: 38-40

CERTIFICATE REQUIREMENTS:
CERTIFICATE OF ACHIEVEMENT IN CAOT: ADMINISTRATIVE ASSISTANT

(Program Code 051401, State Code 21878)

Students will be prepared for employment using automated systems and procedures. Emphasis is placed on the development of language skills, records management, and the use of computer-based word processing, spreadsheet, database, and accounting software in the performance of office functions. Students are prepared to assume general office duties and decision-making office responsibilities. Students completing this certificate are prepared for positions such as administrative assistant, executive assistant, word information processor, office manager, and office systems specialist.

Estimated time to complete: 1.5 years.

COMPLETE THE FOLLOWING 11 REQUIRED COURSES:

CAOT 002	Computer Keyboarding and Document Applications II	3
CAOT 031	Business English	3
CAOT 032	Business Communications	3
CAOT 033	Records Management and Filing	3
CAOT 047*	Applied Office Practice	2
CAOT 082	Microcomputer Software Survey in the Office	3
CAOT 084	Microcomputer Office Applications: Word Processing	3
CAOT 085	Microcomputer Office Applications: Spreadsheet	3
CAOT 092	Computer Windows Application	2
CAOT 097	Internet for Business	3
CAOT 108	Presentation Design for the Office	2

Total: 30

CERTIFICATE OF ACHIEVEMENT IN CAOT: COMPUTER APPLICATIONS SPECIALIST

(Program Code 051402, State Code 21879)

Students who pursue this certificate will gain a comprehensive knowledge and understanding of the automated office environment and will be prepared for such jobs as Internet specialist, executive assistant, administrative assistant, office systems specialist, or computer applications specialist. Students will develop knowledge and skills in word processing, spreadsheet, database, presentation, and electronic accounting software applications. Students completing this certificate are qualified for intermediate positions in an automated office.

Estimated time to complete: 1.5 years.

COMPLETE THE FOLLOWING 10 REQUIRED COURSES:

CAOT 002	Computer Keyboarding and Document Applications II	3
CAOT 031	Business English	3
CAOT 032	Business Communications	3
CAOT 037	Introduction to Bookkeeping	3
CAOT 078*	Microcomputer Accounting Applications for the Electronic Office	3
CAOT 082	Microcomputer Software Survey in the Office	3
CAOT 084	Microcomputer Office Applications: Word Processing	3
CAOT 092	Computer Windows Application	2
CAOT 097	Internet for Business	3
CAOT 108	Presentation Design for the Office	2

COMPLETE 1 COURSE FROM THE FOLLOWING:

CAOT 085	Microcomputer Office Applications: Spreadsheet	(3)
CAOT 086	Microcomputer Office Applications: Database	(3)

COMPLETE 1 COURSE FROM THE FOLLOWING:

CAOT 123	Web Design Applications for the Office Professional	(3)
CAOT 124	Introduction to Image Creation for the Office Professional	(3)

Total: 34

CERTIFICATE OF ACHIEVEMENT IN CAOT: GENERAL OFFICE ASSISTANT

(Program Code 051405, State Code 30499)

The General Office Certificate prepares students for positions in a variety of office settings. This Certificate includes courses in rapid and accurate keyboarding, document editing and formatting, word processing, English skills for the office, records management, general office procedures, and an overview of spreadsheet and presentation software applications. Emphasis is placed on the development of keyboarding and language skills to prepare business documents and perform general office tasks. Completion of this program prepares students to qualify for entry-level office positions such as general office workers, clerk-typist, word processors, and office assistants.

Estimated time to complete: 1 year.

COMPLETE THE FOLLOWING 7 REQUIRED COURSES:

CAOT 001	Computer Keyboarding and Document Applications I	3
CAOT 002	Computer Keyboarding and Document Applications II	3
CAOT 031	Business English	3
CAOT 033	Records Management and Filing	3
CAOT 082	Microcomputer Software Survey in the Office	3
CAOT 084	Microcomputer Office Applications: Word Processing	3
CAOT 092	Computer Windows Application	2

COMPLETE 1 COURSE FROM THE FOLLOWING:

CAOT 043	Office Procedures	(3)
CAOT 047*	Applied Office Practice	(2)

Total: 22-23

Cross-referenced course. * This course has a prerequisite or corequisite.

DEGREES AND CREDIT CERTIFICATES

CERTIFICATE OF ACHIEVEMENT IN COMPUTERIZED BOOKKEEPING

(Program Code 050200, State Code 39152)

This certificate will prepare students to work as bookkeepers, general accounting clerks, or payroll clerks. The graduates will have the skills to maintain payroll, receivable, cash, and payable by journalizing, posting, and transaction recording and reporting.

Estimated time to complete: 1 year.

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:

CAOT 002	Computer Keyboarding and Document Applications II	3
CAOT 032	Business Communication	3
CAOT 037	Introduction to Bookkeeping	3
CAOT 043	Office Procedures	3
CAOT 078	Microcomputer Accounting Applications - QuickBooks	3
CAOT 085	Microcomputer Office Applications: Spreadsheet	3

Total: 18

SKILLS CERTIFICATE IN WEBSITE SOFTWARE SPECIALIST

(Program Code 051408)

This certificate is designed for students who want a fast-track course of study that will enable them to enter the job market with Internet and Web design skills. Completion of the program provides students with the skills required by business offices for using the Internet to locate and capture information as well as for creating and maintaining web pages.

Estimated time to complete: 1 year.

COMPLETE THE FOLLOWING 5 REQUIRED COURSES:

CAOT 082	Microcomputer Software Survey in the Office	3
CAOT 092	Computer Windows Application	2
CAOT 097	Internet for Business	3
CAOT 123	Web Design Applications for the Office Professional	3
CAOT 124	Introduction to Image Creation for the Office Professional	3

Total: 14

COMPUTER SCIENCE

All CO SCI and CO INFO courses have been replaced by CS and CIS courses. Please see the crosswalk on page 124 for details.

COMPUTER SCIENCE (AS)

(Program Code 070711, State Code 02952)

This degree can serve as a basis for further undergraduate education in computer science.

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:

CS 101	Introduction to Computer Science (Formerly CO SCI 802)	3
CS 117*	Intermediate Programming Using C/C++ (Formerly CO SCI 839)	3
CS 136*	Introduction to Data Structures (Formerly CO SCI 836)	3
CS 150*	Windows and Web Database Programming (Formerly CO SCI 870)	3
CS 216*	Object-Oriented Programming in C++ (Formerly CO SCI 840)	3
CS 236*	Advanced Data Structures and Introduction to Databases (Formerly CO SCI 832)	3

COMPLETE 1 COURSE FROM THE FOLLOWING:

CS 111*	Programming in Visual Basic (Formerly CO SCI 808)	(3)
CS 115*	Programming in C# (Formerly CO SCI 895)	(3)

COMPLETE 13 UNITS FROM THE FOLLOWING COURSES:

CIS 104	Microcomputer Application Software (Formerly CO SCI 830)	(4)
CIS 112*	Operating Systems - Beginning Linux (Formerly CO SCI 834)	(3)
CIS 210*	Introduction to Computer Networking (Formerly CO SCI 863)	(3)
CS 111*	Programming in Visual Basic (Formerly CO SCI 808)	(3)
CS 115	Programming in C# (Formerly CO SCI 895)	(3)
CS 130*	Introduction to Computer Architecture and Organization (Formerly CO SCI 816)	(3)
CS 213*	Advanced Programming in Java (Formerly CO SCI 890)	(3)
CS 220*	Advanced Computer Programming (Formerly CO SCI 861)	(3)

Total: 34

CERTIFICATE REQUIREMENTS:
CERTIFICATE OF ACHIEVEMENT IN COMPUTER SCIENCE PROGRAMMING

(Program Code 070712, State Code 30425)

This certificate is designed for students pursuing a Programmer/Analyst position using the C++ programming language, and for employed professionals upgrading their C++ programming skills.

Estimated time to complete: 2 years.

COMPLETE THE FOLLOWING 7 REQUIRED COURSES:

CS 101	Introduction to Computer Science (Formerly CO SCI 802)	3
CS 111*	Programming in Visual Basic (Formerly CO SCI 808)	3
CS 115*	Programming in C# (Formerly CO SCI 895)	3
CS 117*	Intermediate Programming using C/C++ (Formerly CO SCI 839)	3
CS 136*	Introduction to Data Structures (Formerly CO SCI 836)	3
CS 150*	Windows and Web Database Programming (Formerly CO SCI 870)	3
CS 216*	Object-Oriented Programming in C++ (Formerly CO SCI 840)	3

COMPLETE 8 UNITS FROM THE FOLLOWING COURSES:

CIS 104	Microcomputer Application Software (Formerly CO SCI 830)	(4)
CIS 112*	Operating Systems - Beginning Linux (Formerly CO SC 834)	(3)
CIS 210*	Introduction to Computer Networking (Formerly CO SCI 863)	(3)
CS 213*	Advanced Programming in Java (Formerly CO SCI 890)	(3)
CS 220*	Advanced Computer Programming (Formerly CO SCI 861)	(3)
CS 236*	Advanced Data Structures and Introduction to Databases (Formerly CO SCI 832)	(3)

Total: 29

Cross-referenced course. * This course has a prerequisite or corequisite.

SKILLS CERTIFICATE IN .NET PROGRAMMING

(Program Code 070801)

This Skills Certificate provides the student with career preparation for entry level positions in .NET programming. The required courses cover the fundamentals of event-driven Windows programming as well as database and web programming. The time to completion would be four (4) semesters. This Skills Certificate also could be a building block towards the other certificates currently being developed.

Estimated time to complete: 1.5 years.

COMPLETE THE FOLLOWING 4 REQUIRED COURSES:

CS 101	Introduction to Computer Science (Formerly CO SCI 802)	3
CS 111*	Programming in Visual Basic (Formerly CO SCI 808)	3
CS 115*	Programming in C# (Formerly CO SCI 895)	3
CS 150*	Windows and Web Database Programming (Formerly CO SCI 870)	3

Total: 12

SKILLS CERTIFICATE IN C/C++

(Program Code 070711)

This is a short certificate program that gives the student specific instruction in C/C++.

Estimated time to complete: 2 years.

COMPLETE THE FOLLOWING 4 REQUIRED COURSES:

CS 101	Introduction to Computer Science (Formerly CO SCI 802)	3
CS 117*	Intermediate Programming using C/C++ (Formerly CO SCI 839)	3
CS 216*	Object-Oriented Programming in C++ (Formerly CO SCI 840)	3
CS 220*	Advanced Computer Programming (Formerly CO SCI 861)	3

Total: 12

SKILLS CERTIFICATE IN MICROCOMPUTER SYSTEMS

(Program Code 093411)

This certificate is designed to give the electronics student additional exposure to computer science. The certificate can lead to positions such as Microcomputer Systems Technician.

Estimated time to complete: 1 year.

COMPLETE THE FOLLOWING 4 REQUIRED COURSES:

CIS 104	Microcomputer Application Software (Formerly CO SCI 830)	4
ELECTRN 002	Introduction to Electronics	3
ELECTRN 054	Computer Logic	4
ELECTRN 109	Computer Hardware	4

Total: 15

EARTH SCIENCE
EARTH SCIENCE (AS)

(Program Code 193001, State Code 08561)

This degree is awarded to students who have a broad interest in the areas of physical, earth, and applied sciences or specialized technical areas such as mapping, Geographic Information Systems, Global Positioning System, geo-spatial analysis, and remote sensing. Students will learn to apply the scientific inquiry process to problem solving and demonstrate knowledge of and recognize the processes that explain natural phenomena.

COMPLETE THE FOLLOWING 4 REQUIRED COURSES:

ASTRON 001	Elementary Astronomy	3
ENV SCI 001	Introduction to Environmental Science	3
GEOLOGY 001	Physical Geology	3
OCEANO 001	Introduction to Oceanography	3

COMPLETE 6 UNITS FROM THE FOLLOWING COURSES:

(A LAB COURSE CANNOT APPLY UNLESS THE CORRESPONDING LECTURE COURSE IS ALSO TAKEN)

CHEM 068*	Preparation for General Chemistry	(5)
CHEM 101*	General Chemistry I	(5)
CHEM 102*	General Chemistry II	(5)
GEOG 001	Physical Geography	(3)
GEOG 003#	Introduction to Weather and Climate	(3)
GEOG 015*	Physical Geography Laboratory	(2)
GEOLOGY 006*	Physical Geology Laboratory	(1)
MATH 227*	Statistics	(4)
PHYSICS 037*	Physics for Engineers and Scientists I	(5)
PHYSICS 038*	Physics for Engineers and Scientists II	(5)
PHYSICS 039*	Physics for Engineers and Scientists III	(5)
STAT 101*	Statistics for the Social Sciences	(4)

Total: 18

*# Cross-referenced course. * This course has a prerequisite or corequisite.*

DEGREES AND CREDIT CERTIFICATES

ECONOMICS

For the Associate in Arts in Economics for Transfer Degree see page 47.

ECONOMICS (AA)

(Program Code 220400, State Code 02984)

Economics is a social science that deals with allocation of scarce resources among competing alternatives. It analyzes the decisions of production, distribution and consumption of goods and services under the conditions of scarcity and other constraints. Today, analytical method of economics is applied to education, family, business, finance (personal and corporate) crime, health, law, politics, religion, social institutions, war and science. This degree closely mirrors lower division major preparation requirements for economics and business majors at many CSUs.

COMPLETE THE FOLLOWING 2 REQUIRED COURSES:

ECON 001*	Principles of Economics I	3
ECON 002*	Principles of Economics II	3

COMPLETE 1 COURSE FROM THE FOLLOWING:

MATH 238*	Calculus for Business and Social Science I	(5)
MATH 245*	College Algebra	(3)
MATH 261*	Calculus I	(5)

COMPLETE 1 COURSE FROM THE FOLLOWING:

ACCTG 001	Introductory Accounting I	(5)
MATH 227*	Statistics	(4)
MATH 262*	Calculus II	(5)

COMPLETE 1 COURSE FROM THE FOLLOWING:

ACCTG 001	Introductory Accounting I	(5)
ACCTG 002*	Introductory Accounting II	(5)
CIS 101	Introduction to Computers and their Uses	(3)
ECON 030	Comparative Economic Systems	(3)
ECON 040	History of Economic Thought	(3)
ECON 050	Principles of Financial Economics	(3)
MATH 227*	Statistics	(4)
MATH 238*	Calculus for Business and Social Science I	(5)
MATH 261*	Calculus I	(5)
MATH 262*	Calculus II	(5)
PHILOS 009	Symbolic Logic I	(3)
STAT 101*	Statistics for the Social Sciences	(4)

Total: 18-21

ELECTRONICS

ELECTRONICS (AS)

(Program Code 093400, State Code 02955)

This degree can serve as a basis for further study in electronics related fields. Students intending to transfer in Electrical Engineering majors might consider the Engineering degree.

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:

ELECTRN 002	Introduction to Electronics	3
ELECTRN 004*	Fundamentals of Electronics I	4
ELECTRN 006*	Fundamentals of Electronics II	4
ELECTRN 020*	Electronics Circuits I	4
ELECTRN 022*	Electronics Circuits II	4
ELECTRN 054	Computer Logic	4

Total: 23

ELECTRONICS: BIOMEDICAL INSTRUMENTATION (AS)

(Program Code 093460, State Code 02957)

This degree prepares the student to work in hospitals and for equipment manufacturers as a technician to repair and maintain a wide variety of electronic apparatus used in the medical field.

COMPLETE THE FOLLOWING 8 REQUIRED COURSES:

ELECTRN 002	Introduction to Electronics	3
ELECTRN 004*	Fundamentals of Electronics I	4
ELECTRN 006*	Fundamentals of Electronics II	4
ELECTRN 020*	Electronic Circuits I	4
ELECTRN 034	Introduction to Biomedical Electronics	3
ELECTRN 036*	Biophysical Measurements I	4
ELECTRN 038*	Biophysical Measurements II	4
ELECTRN 054	Computer Logic	4

COMPLETE 2 COURSES FROM THE FOLLOWING:

ELECTRN 022*	Electronic Circuits II	(4)
ELECTRN 064*	Technical Computer Applications	(4)
ELECTRN 113	Computer Networking	(4)
ELECTRN 941	Cooperative Education-Electronics	(4)

Total: 38

CERTIFICATE REQUIREMENTS:

SKILLS CERTIFICATE IN A+/NET+ CERTIFICATION PREPARATION

(Program Code 070800)

The three-course sequence required for this certificate prepares students for the nationally recognized A+ Certification Examination. Upon completion of the three, four-unit courses, the student is eligible to receive an A+ Certificate Preparation Certificate. Students must take and pass the two-part examination offered by the Computing Technology Industry Association (Comp TIA) to earn the official A+ Certificate.

Estimated time to complete: 1 year.

COMPLETE THE FOLLOWING 3 REQUIRED COURSES:

ELECTRN 054	Computer Logic	4
ELECTRN 109	Computer Hardware	4
ELECTRN 113	Computer Networking	4

Total: 12

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*# Cross-referenced course. * This course has a prerequisite or corequisite.*

CERTIFICATE OF ACHIEVEMENT IN ELECTRONICS: BIOMEDICAL INSTRUMENTATION

(Program Code 093460, State Code 21893)

This certificate prepares the student to work in an entry-level position as a technician to repair and maintain a variety of electronic apparatus used in the medical field. Some of these positions are: Biomedical Equipment Technician (BMET); Field Service Engineer; Medical Equipment Sales Engineer; Clinical Laboratory Technician; and R & D Technician. The certificate can be the basis for continued study and attainment of an associate's degree.

Estimated time to complete: 2 years.

COMPLETE THE FOLLOWING 8 REQUIRED COURSES:

ELECTRN 002	Introduction to Electronics	3
ELECTRN 004*	Fundamentals of Electronics I	4
ELECTRN 006*	Fundamentals of Electronics II	4
ELECTRN 020*	Electronic Circuits I	4
ELECTRN 034	Introduction to Biomedical Electronics	3
ELECTRN 036*	Biophysical Measurements I	4
ELECTRN 038*	Biophysical Measurements II	4
ELECTRN 054	Computer Logic	4

COMPLETE 1 COURSE FROM THE FOLLOWING:

ELECTRN 022*	Electronic Circuits II	(4)
ELECTRN 064*	Technical Computer Applications	(4)
ELECTRN 113	Computer Networking	(4)
ELECTRN 941	Cooperative Education-Electronics	(4)

Total: 34

CERTIFICATE OF ACHIEVEMENT IN ELECTRONICS TECHNICIAN

(Program Code 093402, State Code 10758)

This certificate leads to positions such as: Electronics Technician; Field Service Technician; Field Service Engineer; Test Technician; Flight-line Technician; Broadcast Technician; Quality Control Technician; and Electronics Manufacturers Technician.

Estimated time to complete: 2 years.

COMPLETE THE FOLLOWING 8 REQUIRED COURSES:

ELECTRN 002	Introduction to Electronics	3
ELECTRN 004*	Fundamentals of Electronics I	4
ELECTRN 006*	Fundamentals of Electronics II	4
ELECTRN 020*	Electronics Circuits I	4
ELECTRN 022*	Electronics Circuits II	4
ELECTRN 034	Introduction to Biomedical Electronics	3
ELECTRN 054	Computer Logic	4
ELECTRN 109	Computer Hardware	4

COMPLETE 1 COURSE FROM THE FOLLOWING:

ELECTRN 036*	Biophysical Measurements I	(4)
ELECTRN 038*	Biophysical Measurements II	(4)
ELECTRN 113	Computer Networking	(4)
ELECTRN 240*	Industrial Electronics I	(4)

Total: 34

CERTIFICATE OF ACHIEVEMENT IN ELECTRONICS TECHNOLOGY

(Program Code 093401, State Code 10757)

The Electronics Technology Certificate can lead to positions such as: Entry-level Electronics Technician; Electronics Assembler Technician; Electronics Supply Salesperson; and Test Technician Trainee.

Estimated time to complete: 1 year.

COMPLETE THE FOLLOWING 5 REQUIRED COURSES:

ELECTRN 002	Introduction to Electronics	3
ELECTRN 004*	Fundamentals of Electronics I	4
ELECTRN 006*	Fundamentals of Electronics II	4
ELECTRN 020*	Electronic Circuits I	4
ELECTRN 054	Computer Logic	4

Total: 19

ENGINEERING
ENGINEERING (AS)

(Program Code 090100, State Code 02954)

The AS Degree in Engineering, is designed to prepare students with the goal of transfer. The Engineering degree at a 4-year college is a high-unit major and it may not be possible to satisfy all lower division major requirements prior to transfer. Students interested in mechanical, electrical, or civil engineering are candidates for this degree.

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:

ARC 172	Architectural Drawing I	3
ENG GEN 101	Introduction to Science, Engineering, and Technology	2
ENG GEN 131*	Statics	3
ENG GEN 151*	Materials of Engineering	3
MATH 261*	Calculus I	5
T & M 031	Machine Shop Practice II	3

Total: 19

SUSTAINABLE CONSTRUCTION MANAGEMENT (AS)

(Program Code 095700, State Code 21326)

The Sustainable Construction Management Degree is designed to prepare the students to become qualified for employment in the field of general construction management, with additional emphasis on sustainable methods and materials that are energy smart, renewable, and environmentally friendly. The program offers up-to-date training and re-training in various evolving aspects of the profession, such as building technologies related to the use of materials from renewable sources, methods of construction that can create smart energy efficient structures, emerging environmental concerns, human relations' laws, and safety regulations.

COMPLETE THE FOLLOWING 8 REQUIRED COURSES:

ARC 172	Architectural Drawing I	3
ARC 173*	Architectural Drawing II	3
EGT 100	Introduction to Sustainable Construction Management	3
EGT 103	Code and Zoning Regulations	3
EGT 104	Cost Analysis and Estimation	3
ENG GEN 101	Introduction to Science, Engineering and Technology	2
ENV SCI 007	Introduction to Environmental Geology	3
MGMT 033	Human Capital Management	3

Total: 23

*# Cross-referenced course. * This course has a prerequisite or corequisite.*

DEGREES AND CREDIT CERTIFICATES

MECHANICAL DRAFTING/DESIGN (AS)

(Program Code 095340, State Code 02958)

This degree is designed for the student who wishes to enter the workforce after graduation as a mechanical or civil engineering drafter, with strong coursework in AutoCAD.

COMPLETE THE FOLLOWING 10 REQUIRED COURSES:

ARC 172	Architectural Drawing I	3
EGT 211	Elementary Engineering Graphics	3
EGT 212*	Applied Engineering Computer Graphics I	3
EGT 213*	Introduction to AutoCAD	3
ENG GEN 101	Introduction to Science, Engineering and Technology	2
MATH 120*	Plane Geometry	5
MATH 240*	Trigonometry	3
MSCNC 114	Print Interpretation & Sketching (Blueprint I)	3
T & M 027	Basic Machine Shop Theory and Practice	4
T & M 030	Machine Shop Practice I	3

COMPLETE 1 COURSE FROM THE FOLLOWING:

ARC 173*	Architectural Drawing II	(3)
MSCNC 124	Print Interpretation and Inspection (Blueprint II)	(3)

Total: 35

ENGINEERING TECHNOLOGY: INDUSTRIAL/ MANUFACTURING (AS)

(Program Code 095602, State Code 02959)

This degree is designed for the student who wishes to enter the workforce after graduation in a position such as: Drafter; Drill Press Operator; Engineering Liaison; Quality Controller; Grinder; Manufacturing Controller; Operations Researcher; and Lathe Operator.

COMPLETE THE FOLLOWING 11 REQUIRED COURSES:

CHEM 068*	Preparation for General Chemistry	5
CIS 104	Microcomputer Application Software (Formerly CO SCI 830)	4
EGT 211*	Elementary Engineering Graphics	3
ENG GEN 101	Introduction to Science, Engineering and Technology	2
MATH 120*	Plane Geometry	5
MATH 240*	Trigonometry	3
MSCNC 124	Print Interpretation and Inspection (Blueprint II)	3
NUM CON 21	Advanced Manual CNC Lathe Programming & Introduction to CAM	3
T & M 027	Basic Machine Shop Theory and Practice	4
T & M 030	Machine Shop Practice I	3
T & M 031	Machine Shop Practice II	3

Total: 38

ENGINEERING TECHNOLOGY: MECHANICAL ENGINEERING (AS)

(Program Code 095600, State Code 08541)

This degree is designed for the student who wishes to enter the workforce after graduation with a strong background in AutoCAD drafting, blueprint reading, numerical control, and computer programming skills.

COMPLETE THE FOLLOWING 12 REQUIRED COURSES:

CIS 104	Microcomputer Application Software (Formerly CO SCI 830)	4
EGT 211	Elementary Engineering Graphics	3
EGT 212*	Applied Engineering Computer Graphics I	3
ELECTRN 002	Introduction to Electronics	3
ENG GEN 101	Introduction to Science, Engineering and Technology	2

MATH 120*	Plane Geometry	5
MATH 240*	Trigonometry	3
MSCNC 114	Print Interpretation & Sketching (Blueprint I)	3
MSCNC 124	Print Interpretation and Inspection (Blueprint II)	3
NUM CON 021	Advanced Manual CNC Lathe Programming & Introduction to CAM	3
T & M 027	Basic Machine Shop Theory and Practice	4
T & M 031	Machine Shop Practice II	3

Total: 39

MANUFACTURING TECHNOLOGY: METAL MACHINING (AS)

(Program Code 095630, State Code 02960)

This degree is designed for the student who wishes to enter the workforce after graduation with a strong background in both traditional machining and in numerical control.

COMPLETE THE FOLLOWING 12 REQUIRED COURSES:

ELECTRN 002	Introduction to Electronics	3
ENG GEN 101	Introduction to Science, Engineering and Technology	2
MATH 125*	Intermediate Algebra (or any 5 unit mathematics course)	5
MSCNC 114	Print Interpretation & Sketching (Blueprint I)	3
MSCNC 124	Print Interpretation and Inspection (Blueprint II)	3
NUM CON 021	Advanced Manual CNC Lathe Programming & Introduction to CAM	3
NUM CON 022	Advanced Manual CNC Mill & Microcomputer Assisted Programming	3
NUM CON 023	Computer Aided Manufacturing Programming of CNC Equipment	3
T & M 027	Basic Machine Shop Theory and Practice	4
T & M 030	Machine Shop Practice I	3
T & M 031	Machine Shop Practice II	3
T & M 032	Machine Shop Practice III	3

Total: 38

MANUFACTURING TECHNOLOGY: NUMERICAL CONTROL (AS)

(Program Code 095631, State Code 08542)

This degree is designed for the student who wishes to enter the workforce after graduation with a strong background in all aspects of numerical control.

COMPLETE THE FOLLOWING 12 REQUIRED COURSES:

ELECTRN 002	Introduction to Electronics	3
ENG GEN 101	Introduction to Science, Engineering and Technology	2
ENG GEN 151	Materials of Engineering	3
MATH 125*	Intermediate Algebra (or any 5 unit mathematics course)	5
MSCNC 124	Print Interpretation and Inspection (Blueprint II)	3
NUM CON 021	Advanced Manual CNC Lathe Programming & Introduction to CAM	3
NUM CON 022	Advanced Manual CNC Mill & Microcomputer Assisted Programming	3
NUM CON 023	Computer Aided Manufacturing Programming of CNC Equipment	3
T & M 027	Basic Machine Shop Theory and Practice	4
T & M 030	Machine Shop Practice I	3
T & M 031	Machine Shop Practice II	3
T & M 032	Machine Shop Practice III	3

Total: 38

Engineering, *Continued next page*

Cross-referenced course. * This course has a prerequisite or corequisite.

CERTIFICATE REQUIREMENTS:
CERTIFICATE OF ACHIEVEMENT IN ARCHITECTURE
(Program Code 020100, State Code 08526)

This certificate is designed for the student who wants to enter the field as an architectural drafter. The course content is AutoCAD-based, and will allow the student to produce a wide variety of working drawings for both residential and commercial buildings.

Estimated time to complete: 1.5 years.

COMPLETE THE FOLLOWING 8 REQUIRED COURSES:

Course	Title	Units
ARC 172	Architectural Drawing I	3
ARC 173*	Architectural Drawing II	3
ARC 221*	Architectural Rendering	2
ARC 271*	Architectural Drawing III	3
EGT 100	Introduction to Sustainable Construction Management	3
EGT 211*	Elementary Engineering Graphics	3
ENG GEN 101	Introduction to Science, Engineering and Technology	2
MATH 115*	Elementary Algebra (or higher level math course)	(3-5)

Total: 22-24

CERTIFICATE OF ACHIEVEMENT IN COMPUTER GRAPHICS/ DESIGN
(Program Code 095301, State Code 10759)

This certificate contains a body of courses designed to train students in computer graphics applications, as used in industry. This training program is continually readjusted to keep current with the newest techniques of applying computers to aid in engineering design and manufacturing. Primarily this certificate prepares the student for operating CAD software in computer applications as related to engineering and manufacturing.

Estimated time to complete: 1.5 years.

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:

Course	Title	Units
EGT 211	Elementary Engineering Graphics	3
EGT 212*	Applied Engineering Computer Graphics I	3
EGT 213*	Introduction to AutoCAD	3
ENG GEN 101	Introduction to Science, Engineering and Technology	2
MATH 120*	Plane Geometry	5
MATH 240*	Trigonometry	3

Total: 19

CERTIFICATE OF ACHIEVEMENT IN ENGINEERING TECHNOLOGY INDUSTRIAL/MANUFACTURING
(Program Code 095602, State Code 21895)

The Industrial Technology/Manufacturing Certificate can lead to positions such as: Drafter; Drill Press Operator; Engineering Liaison; Quality Controller; Grinder; Manufacturing Controller; Operations Researcher; Part Inspector; and Lathe Operator. The certificate can be the basis for continued study and attainment of an associate's degree.

Estimated time to complete: 1.5 years.

COMPLETE THE FOLLOWING 8 REQUIRED COURSES:

Course	Title	Units
CIS 104	Microcomputer Application Software (Formerly CO SCI 830)	4
EGT 211	Elementary Engineering Graphics	3
ELECTRN 004*	Fundamentals of Electronics I	4
ENG GEN 101	Introduction to Science, Engineering and Technology	2
NUM CON 021	Advanced Manual CNC Lathe Programming & Introduction to CAM	3
MSCNC 124	Print Interpretation and Inspection (Blueprint II)	3
T & M 027	Basic Machine Shop Theory and Practice	4
T & M 030	Machine Shop Practice I	3

Total: 26

CERTIFICATE OF ACHIEVEMENT IN MECHANICAL DRAFTING/ DESIGN
(Program Code 095340, State Code 21894)

This certificate is designed for the student who wishes to enter the workforce in positions such as Drafter Tracer; Detailer Engineering Aid; Drafter; and Computer Aided Drafting.
Estimated time to complete: 1.5 years.

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:

Course	Title	Units
EGT 211	Elementary Engineering Graphics	3
EGT 212*	Applied Engineering Computer Graphics I	3
ENG GEN 101	Introduction to Science, Engineering and Technology	2
MATH 115*	Elementary Algebra	5
MSCNC 124	Print Interpretation and Inspection (Blueprint II)	3
T & M 027	Basic Machine Shop Theory and Practice	4

Total: 20

CERTIFICATE OF ACHIEVEMENT IN MECHANICAL ENGINEERING TECHNOLOGY
(Program Code 095601, State Code 21896)

This certificate can lead to positions such as: Research Aide; Production Aide; Design Aide; Construction Aide; Maintenance Aide; Salesperson; Detail Drafter; and Engineering Technician.

Estimated time to complete: 1.5 years.

COMPLETE THE FOLLOWING 8 REQUIRED COURSES:

Course	Title	Units
EGT 211	Elementary Engineering Graphics	3
EGT 212*	Applied Engineering Computer Graphics I	3
ENG GEN 101	Introduction to Science, Engineering and Technology	2
MATH 120*	Plane Geometry	5
MATH 240*	Trigonometry	5
MSCNC 124	Print Interpretation and Inspection (Blueprint II)	3
T & M 027	Basic Machine Shop Theory and Practice	4
T & M 030	Machine Shop Practice I	3

Total: 26

CERTIFICATE OF ACHIEVEMENT IN MANUFACTURING TECHNOLOGY: METAL MACHINING
(Program Code 095630, State Code 21897)

This certificate is designed for the student who wishes to enter the workforce in positions such as: Mill operator; Numerical Control Machinist; Lathe Operator; and Numerical Control Operator.

Estimated time to complete: 1.5 years.

COMPLETE THE FOLLOWING 8 REQUIRED COURSES:

Course	Title	Units
ENG GEN 101	Introduction to Science, Engineering, and Technology	2
MATH 115*	Elementary Algebra	5
MSCNC 114	Print Interpretation and Sketching (Blueprint I)	3
NUM CON 021	Advanced Manual CNC Lathe Programming & Introduction to CAM	3
NUM CON 022	Adv. Manual CNC Mill & Microcomputer Assisted Programming	3
T & M 027	Basic Machine Shop Theory and Practice	4
T & M 030	Machine Shop Practice I	3
T & M 031	Machine Shop Practice II	3

Total: 26

*# Cross-referenced course. * This course has a prerequisite or corequisite.*

DEGREES AND CREDIT CERTIFICATES

CERTIFICATE OF ACHIEVEMENT IN MANUFACTURING TECHNOLOGY: NUMERICAL CONTROL

(Program Code 095631, State Code 21898)

This certificate is designed for the student who wishes to enter the workforce in positions such as: Numerical Control Programmer; Numerical Control Machinist; and Numerical Control Machine Operator.

Estimated time to complete: 2 years.

COMPLETE THE FOLLOWING 10 REQUIRED COURSES:

CIS 104	Microcomputer Application Software (Formerly CO SCI 830)	4
ENG GEN 101	Introduction to Science, Engineering and Technology	2
MATH 115*	Elementary Algebra	5
MSCNC 114	Print Interpretation and Sketching (Blueprint I)	3
MSCNC 124	Print Interpretation and Inspection (Blueprint II)	3
NUM CON 021	Advanced Manual CNC Lathe Programming & Introduction to CAM	3
NUM CON 022	Adv. Manual CNC Mill & Microcomputer Assisted Programming	3
NUM CON 023	Computer Aided Manufacturing Programming of CNC Equipment	3
T & M 027	Basic Machine Shop Theory and Practice	4
T & M 030	Machine Shop Practice I	3

Total: 33

CERTIFICATE OF ACHIEVEMENT IN SUSTAINABLE CONSTRUCTION MANAGEMENT

(Program Code 095700, State Code 21327)

The Sustainable Construction Management Certificate is designed to prepare the students to become qualified for employment in the field of general construction management, with additional emphasis on sustainable methods and materials that are energy smart, renewable, and environmentally friendly. The program offers up-to-date training and re-training in various evolving aspects of the profession, such as building technologies related to the use of materials from renewable sources, methods of construction that can create smart energy efficient structures, emerging environmental concerns, human relations' laws, and safety regulations.

Estimated time to complete: 1 year.

COMPLETE THE FOLLOWING 8 REQUIRED COURSES:

ARC 172	Architectural Drawing I	3
ARC 173*	Architectural Drawing II	3
EGT 100	Introduction to Sustainable Construction Management	3
EGT 103	Code and Zoning Regulations	3
EGT 104	Cost Analysis and Estimation	3
ENG GEN 101	Introduction to Science, Engineering and Technology	2
ENV SCI 007	Introduction to Environmental Geology	3
MGMT 033	Human Capital Management	3

Total: 23

ENGLISH

For the Associate in Arts in English for Transfer Degree see page 48.

ENGLISH AS A SECOND LANGUAGE

CERTIFICATE REQUIREMENTS:
CERTIFICATE OF ACHIEVEMENT IN ESL MILESTONE - PATHWAY TO LANGUAGE ARTS / SPOKEN COMMUNICATION

(Program Code 493087, State Code 39583)

The ESL Milestone Certificate Program is designed to prepare English Language learners (ELLs) for the academic rigor of degree-applicable coursework in various Guided Pathways Meta Majors. Students completing these certificates have achieved academic English listening and speaking skills at an advanced, post-secondary level; they have also achieved success in prerequisite or introductory coursework in a variety of degree, certificate, or general education pathways. These two elements combine to demonstrate significant achievement of a milestone along their pathways to degrees, certificates, or transfer. To earn a certificate, students must complete the required courses as listed with a minimum grade of "C." At least 50% of all major course work must be completed at Valley College.

COMPLETE THE FOLLOWING 4 REQUIRED COURSES:

E.S.L. 006C	College ESL VI: Listening and Speaking	3
E.S.L. 006A	College ESL VI: Writing and Grammar	6
E.S.L. 008	Advanced ESL Composition	6
COMM 101	Public Speaking	3
	OR	
COMM 102	Oral Communication II	3

LIST A: SELECT 1:

COUNSEL 001	Introduction to College	1
LIB SCI 101	College Research Skills	1

Total: 19

CERTIFICATE OF ACHIEVEMENT IN ESL MILESTONE - PATHWAY TO LANGUAGE ARTS / WRITTEN COMMUNICATION

(Program Code 493087, State Code 39584)

The Guided Pathways ESL Milestone Certificate Program is designed to prepare English Language learners (ELLs) for the academic rigor of degree-applicable coursework in various Guided Pathways Meta Majors. Students completing these certificates have achieved academic English reading and writing skills at an advanced, post-secondary level; they have also achieved success in prerequisite or introductory coursework in a variety of degree, certificate, or general education pathways. These two elements combine to demonstrate significant achievement of a milestone along their pathways to degrees, certificates, or transfer. To earn a certificate, students must complete the required courses as listed with a minimum grade of "C." At least 50% of all major course work must be completed at Valley College..

COMPLETE THE FOLLOWING 4 REQUIRED COURSES:

E.S.L. 006B	College ESL VI: Reading and Vocabulary	3
E.S.L. 006A	College ESL VI: Writing and Grammar	6
E.S.L. 008	Advanced ESL Composition	6
ENGLISH 101	College Reading and Composition	3

LIST A: SELECT 1:

COUNSEL 001	Introduction to College	1
LIB SCI 101	College Research Skills	1

Total: 19

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*# Cross-referenced course. * This course has a prerequisite or corequisite.*

ETHNIC STUDIES
ETHNIC STUDIES (AA)
(Program Code 220300, State Code 02983)

An Associate's degree in Ethnic Studies provides students with theoretical frameworks through which they are able to explore, examine, and analyze the study of a wide array of ethnic groups in the United States. Students will build skills at communicating with diverse audiences and examining multiple sources of information and data. This degree equips students to enter a multi-ethnic workforce and more effectively work toward social justice.

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:

AFRO AM 004	The African-American in the History of the United States I	3
AFRO AM 005	The African-American in the History of the United States II	3
CHICANO 007	The Mexican-American in the History of the United States I	3
CHICANO 008	The Mexican-American in the History of the United States II	3
JEWISH 001	The Jew in America	3
JEWISH 025	The History of the Jewish People	3

COMPLETE 2 COURSES FROM THE FOLLOWING:

AFRO AM 002	The African-American in Contemporary Urban Society	(3)
AFRO AM 020	African-American Literature I	(3)
CHICANO 002	The Mexican-American in Contemporary Society	(3)
CHICANO 044#	Mexican Civilization	(3)
HISTORY 020	History of California and the Pacific Coast	(3)
JEWISH 002	The Jewish Religious Heritage	(3)
JEWISH 010#	Hebrew Civilization II	(3)
JEWISH 027	Holocaust: A Prototype of Genocide	(3)
SOC 002	American Social Problems	(3)
SOC 011	Race and Ethnic Relations	(3)

Total: 24

FIRE TECHNOLOGY
FIRE TECHNOLOGY (AS)
(Program Code 213300, State Code 02981)

Students earning the Fire Technology AS Degree have obtained skills for entry-level and promotional employment in the fire services. This degree can lead to positions such as: Fire Fighter, Forest Fire Fighter, Fire Inspector, and Arson Investigator.

COMPLETE THE FOLLOWING 5 REQUIRED COURSES:

FIRETEK 201	Fire Protection Organization	3
FIRETEK 202	Fire Prevention	3
FIRETEK 203	Fire Protection Equipment and Systems	3
FIRETEK 204	Building Construction for Fire Protection	3
FIRETEK 205	Fire Behavior and Combustion	3

COMPLETE 1 COURSE FROM THE FOLLOWING:

FIRETEK 27	Wildland Firefighter	(4)
FIRETEK 96	Emergency Medical Technician	(8)

Total: 19-23

CERTIFICATE REQUIREMENTS:
CERTIFICATE OF ACHIEVEMENT IN FIRE TECHNOLOGY
(Program Code 213300, State Code 21901)

The Certificate of Achievement is designed for students desiring to complete the "core" curriculum of the discipline in order to prepare for entry level or promotional employment positions within the Fire Service. This certificate can lead to positions such as: Fire Fighter, Forest Fire Fighter, Fire Inspector, and Arson Investigator. The classes included in the certificate are also the five "core" classes that are required for the Associate's degree in Fire Technology.

Estimated time to complete: 1.5 years.

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:

FIRETEK 201	Fire Protection Organization	3
FIRETEK 202	Fire Prevention	3
FIRETEK 203	Fire Protection Equipment & Systems	3
FIRETEK 204	Building Construction for Fire Protection	3
FIRETEK 205	Fire Behavior & Combustion	3
ADM JUS 911	Cooperative Education - Administrators of Justice	1

Total: 16

FOREIGN LANGUAGES
FOREIGN LANGUAGES (AA)
(Program Code 110100, State Code 02964)

This degree is an alternative to the individual language majors of French, German, Italian, and Spanish, and is especially suitable for those students with prior instruction in a foreign language. The student must complete Semester 4 or higher in a primary language, demonstrating effective skills in the four major areas of language study (reading, writing, speaking, listening comprehension) in that language, as well as cultural proficiency. The student must also complete two sequential courses in a secondary language, demonstrating a minimum of advanced elementary language and cultural knowledge in that language.

REQUIRED COURSES:

Semester 4 or higher in a primary language	5
Two classes in a sequence in a secondary language	10
LING 001 Introduction to Language and Linguistics	3

Total: 18

Cross-referenced course. * This course has a prerequisite or corequisite.

DEGREES AND CREDIT CERTIFICATES

FRENCH

FRENCH (AA)

(Program Code 110200, State Code 02965)

This degree provides a solid foundation in the study of French and will enable students to demonstrate effective skills in the four major areas of language study (reading, writing, speaking, listening comprehension). Students will examine the historical and cultural heritage of various French-speaking nations, and understand the role that they play in the global society. This degree can provide the basis for further undergraduate education in modern languages, humanities, cultural and global studies.

COMPLETE 3-4 COURSES FROM THE FOLLOWING:

FRENCH 001	Elementary French I	(5)
FRENCH 002*	Elementary French II	(5)
FRENCH 003*	Intermediate French I	(5)
FRENCH 004*	Intermediate French II	(5)
FRENCH 005*	Advanced French I	(5)
FRENCH 006*	Advanced French II	(5)
FRENCH 021	Fundamentals of French I	(3)
FRENCH 022*	Fundamentals of French II	(3)

3-5 UNITS CHOSEN FROM THE FOLLOWING COURSES:

FRENCH 010	French Civilization	(3)
FRENCH 025	French & Francophone Short Story in Translation	(3)
FRENCH 063	Intermediate French Conversation I	(2)
FRENCH 064	Intermediate French Conversation II	(2)
FRENCH 066	Advance French Conversation I	(2)
LING 001	Introduction to Language and Linguistics	(3)

Total: 18-21

GENERAL STUDIES

Students planning to transfer are cautioned that the curriculum for each of the options below may not provide for completion of the lower division requirements for transfer. Students should consult with a counselor for specific information regarding an intended major if transfer is a goal.

GENERAL STUDIES: ARTS (AA)

(Program Code 490103, State Code 18169)

This program represents a broad based degree in the arts. The courses emphasize analysis and appreciation of art in terms of historical perspectives, aesthetic, and cultural importance.

REQUIREMENTS

Complete at least 18 units of coursework listed below plus one additional course from the performance/studio area.

COMPLETE 6 COURSES FROM THE FOLLOWING:

ART 101	Survey of Art History I	(3)
ART 102	Survey of Art History II	(3)
ART 103	Art Appreciation I	(3)
ART 105	History of Asian Art	(3)
ART 109	The Arts of Africa, Oceania, and Ancient America	(3)
ART 115	History of Modern Art	(3)
ART 116	History of Women and Art	(3)
ART 125	History of Photography I	(3)
BRDCSTG 026	TV-Film Aesthetics	(3)
CINEMA 102	Film Genres	(3)
CINEMA 103	Diversity in Cinema	(3)
CINEMA 104	History of Documentary Film	(3)
CINEMA 105	History of Motion Pictures	(3)
CINEMA 107	Understanding Motion Pictures	(3)
DANCEST 805	History and Appreciation of Dance	(3)
HUMAN 003	The Arts of Contemporary Society	(3)
MUSIC 101	Fundamentals of Music	(3)
MUSIC 111	Music Appreciation I	(3)
MUSIC 121*	Music History and Literature I	(3)
MUSIC 122*	Music History and Literature II	(3)
MUSIC 136	Music in American Culture	(3)
MUSIC 141	Jazz Appreciation	(3)
THEATER 100	Introduction to the Theater	(3)
THEATER 110	History of the World Theater I	(3)
THEATER 112	History of World Theater II	(3)

COMPLETE 1 COURSE FROM THE FOLLOWING:

ART 201	Drawing I	(3)
ART 204*	Life Drawing I	(3)
ART 501	Beginning Two-Dimensional Design	(3)
ART 600	Typography I	(3)
ART 604*	Graphic Design I	(3)
ART 700	Introduction to Sculpture	(3)
ART 708	Introduction to Ceramics	(3)
CINEMA 101*	Beginning Film Production Workshop	(3)
DANCEST 801	Modern Dance I	(3)
MUSIC 321	Elementary Piano I	(2)
MUSIC 411	Elementary Voice I	(2)
MUSIC 650	Beginning Guitar	(2)
MUSIC 651	Classical Guitar I	(2)
THEATER 270	Beginning Acting	(3)

Total: 20-21

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*# Cross-referenced course. * This course has a prerequisite or corequisite.*

General Studies, *Continued next page*

GENERAL STUDIES: NATURAL SCIENCE (AA)

(Program Code 490104, State Code 18170)

This program represents a broad based degree in the natural sciences. These courses examine the physical universe, its life forms, and its natural phenomena. Emphasis is placed on students using methodologies of science as an investigative tool.

REQUIREMENTS

Complete 18 units of coursework listed below with at least one course from the Physical Sciences and at least one from the Biological Sciences. At least one course requiring laboratory work must be completed. Lab courses, marked by the symbol ‡, cannot apply unless the lecture courses that are their prerequisite or corequisite are also taken.

PHYSICAL SCIENCES (COMPLETE AT LEAST 1 COURSE)

ASTRON 001	Elementary Astronomy	(3)
ASTRON 005‡*	Fundamentals of Astronomy Laboratory	(1)
CHEM 051	Fundamentals of Chemistry I	(5)
CHEM 068*	Preparation for General Chemistry	(5)
CHEM 101*	General Chemistry I	(5)
CHEM 102*	General Chemistry II	(5)
ENV SCI 001	Introduction to Environmental Science	(3)
ENV SCI 007#	Introduction to Environmental Geology	(3)
ENV SCI 022*	The Human Environment: Physical Processes Lab	(2)
GEOG 001	Physical Geography	(3)
GEOG 003#	Introduction to Weather and Climate	(3)
GEOG 015‡*	Physical Geography Laboratory	(2)
GEOG 017	Physical Geography and Laboratory	(5)
GEOLOGY 001	Physical Geology	(3)
GEOLOGY 006‡*	Physical Geology Laboratory	(1)
GEOLOGY 010#	Introduction to Environmental Geology	(3)
OCEANO 001	Introduction to Oceanography	(3)
OCEANO 010‡*	Physical Oceanography Laboratory	(1)
PHYS SC 001	Physical Science I	(3)
PHYS SC 014‡*	Physical Science Laboratory	(1)
PHYSICS 006*	General Physics I	(4)
PHYSICS 007*	General Physics II	(4)
PHYSICS 037*	Physics for Engineers and Scientists I	(5)
PHYSICS 038*	Physics for Engineers and Scientists II	(5)

BIOLOGICAL SCIENCES (COMPLETE AT LEAST ONE COURSE)

ANATOMY 001*	Introduction to Human Anatomy	(4)
ANTHRO 101	Human Biological Evolution	(3)
ANTHRO 111‡*	Laboratory in Human Biological Evolution	(2)
BIOLOGY 003	Introduction to Biology	(4)
BIOLOGY 006*	General Biology I	(5)
BIOLOGY 007*	General Biology II	(5)
BIOLOGY 022	Marine Biology	(4)
BIOLOGY 040*	The Science of Biotechnology	(3)
MICRO 020*	General Microbiology	(4)
PHYSIOL 001*	Introduction to Human Physiology	(4)
PSYCH 002*	Biological Psychology	(3)

Total: 18

GENERAL STUDIES: SOCIAL AND BEHAVIORAL SCIENCES (AA)

(Program Code 490105, State Code 18171)

This program represents a broad based degree in the social and behavioral sciences. These courses emphasize the perspective, concepts, theories and methodologies of the discipline typically found in the vast variety of disciplines that comprise study in the social and behavioral sciences. Students will study about themselves and others as members of a larger society.

REQUIREMENTS

Complete 18 units of coursework from the list below. 12 units must be from the Social and Behavioral Science category; 3 units must be from the American Institutions category; and 3 additional units may be from either category.

SOCIAL AND BEHAVIORAL SCIENCES:

COMPLETE AT LEAST 4 COURSES FROM THE FOLLOWING:

ANTHRO 102	Human Ways of Life: Cultural Anthropology	(3)
ANTHRO 103	Archaeology: Reconstructing the Human Past	(3)
ANTHRO 104	Human Language and Communication	(3)
BRDCSTG 001	Fundamentals of Television and Radio Broadcasting	(3)
CHICANO 007	The Mexican-American in the History of The United States I	(3)
CH DEV 001*	Child Growth and Development	(3)
CH DEV 042	Teaching in a Diverse Society	(3)
COMM 122	Intercultural Communication	(3)
ECON 001	Principles of Economics I	(3)
ECON 002*	Principles of Economics II	(3)
ECON 030	Comparative Economic Systems	(3)
ECON 040	History of Economic Thought	(3)
ECON 060	Economics and the Environment	(3)
ENVSTDS 101	Introduction to Environmental Studies	(3)
GEOG 002	Cultural Elements of Geography	(3)
GEOG 009	People and the Earth's Ecosystem	(3)
GEOG 014	Geography of California	(3)
GEOG 045	Food and Culture	(3)
HISTORY 001	Introduction to Western Civilization I	(3)
HISTORY 002	Introduction to Western Civilization II	(3)
HISTORY 086	Introduction to World Civilization I	(3)
HUMAN 006	Great People, Great Ages	(3)
HUMAN 008	Great Women in the Humanities	(3)
JEWISH 025	The History of the Jewish People	(3)
JOURNAL 105	Mass Communications	(3)
LAW 003	Civil Rights and the Law	(3)
POL SCI 002	Modern World Governments	(3)
POL SCI 005	The History of Western Political Thought	(3)
POL SCI 007	Contemporary World Affairs	(3)
PSYCH 001	General Psychology I	(3)
PSYCH 011*	Child Psychology	(3)
PSYCH 012*	Adolescent Psychology	(3)
PSYCH 013*	Social Psychology	(3)
PSYCH 014*	Abnormal Psychology	(3)
PSYCH 041*	Life-Span Psychology: From Infancy to Old Age	(3)
SOC 001	Introduction to Sociology	(3)
SOC 002	American Social Problems	(3)
SOC 003	Crime and Delinquency	(3)
SOC 004	Sociological Analysis	(3)
SOC 011	Race and Ethnic Relations	(3)
SOC 012	Marriage and Family Life	(3)
SOC 021	Human Sexuality	(3)
SOC 025	Drugs and Culture	(3)
SOC 031	Sociology of Gender	(3)

*# Cross-referenced course. * This course has a prerequisite or corequisite.*

General Studies, *Continued next page*

DEGREES AND CREDIT CERTIFICATES

AMERICAN INSTITUTIONS:

COMPLETE AT LEAST ONE COURSE FROM THE FOLLOWING:

AFRO AM 004	The African-American in the History of the United States I	(3)
AFRO AM 005	The African-American in the History of the United States II	(3)
CHICANO 008	The Mexican-American in the History of the United States II	(3)
ECON 010	Economic History of the United States	(3)
HISTORY 005	History of the Americas I	(3)
HISTORY 006	History of the Americas II	(3)
HISTORY 011	Political and Social History of the United States to 1877	(3)
HISTORY 012	Political and Social History of the Unites States from 1865	(3)
HISTORY 020	History of the California and the Pacific Coast	(3)
POL SCI 001	The Government of the United States	(3)

Total: 18

CERTIFICATE REQUIREMENTS:

CERTIFICATE OF ACHIEVEMENT IN CSU GENERAL EDUCATION BREADTH

(Program Code 490112, State Code 17958)

The Certificate of Achievement in CSU Breadth is intended for students who will transfer to a CSU. Completion of the pattern of courses listed below will satisfy lower division general education requirements at any CSU. However, completion of the Certificate requirements is not an admission requirement nor does it guarantee admission to a CSU. Consult a Valley College counselor before taking courses outside Valley College to be used on this CSU general education plan, particularly if taking courses elsewhere in the LA College District. Every community college may apply its courses differently on general education, even if the course has the same course number and title.

REQUIRED COURSES:

Complete each area required for CSU Certification as indicated on pages 32-33.

Total: 39

CERTIFICATE OF ACHIEVEMENT IN INTERSEGMENTAL GENERAL EDUCATION TRANSFER (IGETC)

(Program Code 490113, State Code 17959)

The Certificate of Achievement in Intersegmental General Education Transfer Curriculum (IGETC) is intended for students who will transfer to a UC or CSU. Completion of the pattern of courses listed below will satisfy lower division general education requirements. However, completion of the Certificate requirements is not an admission requirement nor does it guarantee admission to a UC or CSU.

REQUIRED COURSES:

Complete each area required for certification of IGETC completion as indicated on pages 27-29.

Total: 37-39

GEOGRAPHY

GEOGRAPHY (AA)

(Program Code 220600, State Code 02986)

This degree provides a spatially-focused and integrative approach to the study of the Earth, the environment, and human/environment interaction at local, regional and global scales. The AA degree in Geography may prepare you for career specializations including global studies/globalization, human population growth and development studies, environmental policy, pollution, global warming, and urbanization.

COMPLETE THE FOLLOWING 4 REQUIRED COURSES:

GEOG 001	Physical Geography	3
GEOG 002	Cultural Elements of Geography	3
GEOG 003#	Introduction to Weather and Climate	3
GEOG 0015*	Physical Geography Laboratory	2

COMPLETE 3 COURSES FROM THE FOLLOWING:

GEOG 009	People and the Earth's Ecosystem	(3)
GEOG 014	Geography of California	(3)
GEOG 030	Managing Natural Resources	(3)
GEOG 045	Food and Culture	(3)
GEOLOGY 001	Physical Geology	(3)
OCEANO 001	Introduction to Oceanography	(3)

Total: 20

GEOLOGY

GEOLOGY (AS)

(Program Code 191400, State Code 08560)

Physical Geology is a detailed study of the origin and composition of the earth, the processes acting to modify the earth's surface, and the phenomena that catastrophically affect humans and their environment such as volcanoes, earthquakes, landslides, and floods.

COMPLETE THE FOLLOWING 4 REQUIRED COURSES:

GEOLOGY 001	Physical Geology	3
GEOLOGY 006*	Physical Geology Laboratory	1
CHEM 101*	General Chemistry I	5
CHEM 102*	General Chemistry II	5

CHOOSE ONE OF THE FOLLOWING PHYSICS SEQUENCES:
SEQUENCE A

PHYSICS 037*	Physics for Engineers and Scientists I	(5)
PHYSICS 038*	Physics for Engineers and Scientists II	(5)
PHYSICS 039*	Physics for Engineers and Scientists III	(5)

SEQUENCE B

PHYSICS 006*	General Physics I	(4)
PHYSICS 007*	General Physics II	(4)

COMPLETE 7–14 UNITS FROM THE FOLLOWING COURSES TO COMPLETE 36 TOTAL UNITS.
A lab course cannot apply unless lecture course is also taken.

BIOLOGY 007*	General Biology II	(5)
MATH 261*	Calculus I	(5)
OCEANO 001	Introduction to Oceanography	(3)
OCEANO 010*	Physical Oceanography Laboratory	(1)
STAT 101*	Statistics for the Social Sciences	(4)

Total: 36

*# Cross-referenced course. * This course has a prerequisite or corequisite.*

GERMAN
GERMAN (AA)
(Program Code 110300, State Code 08555)

This degree provides solid foundation in the study of German for those wishing to continue their education in languages. Students will be able to demonstrate effective skills in the four major areas of language study (reading, writing, speaking, listening comprehension), and demonstrate knowledge of the global society, and the role of Germany and of the German language and culture in the contemporary world.

COMPLETE 3 COURSES FROM THE FOLLOWING:

GERMAN 001	Elementary German I	(5)
GERMAN 002*	Elementary German II	(5)
GERMAN 003*	Intermediate German I	(5)
GERMAN 004*	Intermediate German II	(5)
GERMAN 005*	Advanced German I	(5)

COMPLETE 3–5 UNITS FROM THE FOLLOWING COURSES:

GERMAN 008*	Conversational German	(2)
LING 001	Introduction to Language and Linguistics	(3)

Total: 18-20

HEALTH SCIENCE

DEGREE REQUIREMENTS:

Please refer to page 88-89 for the Nursing major and pages 92-93 for the Respiratory Therapy major.

CERTIFICATE REQUIREMENTS:

Please refer to page 92-93 for the Respiratory Therapy Certificate program.

HEBREW STUDIES

See Religious Studies.

HISTORY

For the Associate in Arts in History for Transfer Degree see page 50.

HISTORY (AA)
(Program Code 220500, State Code 02985)

The History Program includes courses that examine the people, institutions, ideas, and events of the past and present. The study of History contributes to cultural literacy and develops critical thinking skills. Historical study provides a fundamental preparation for careers such as law, government, and education. This degree can serve as the basis for further undergraduate education in history.

COMPLETE THE FOLLOWING 2 REQUIRED COURSES:

HISTORY 001	Introduction to Western Civilization I	3
HISTORY 002	Introduction to Western Civilization II	3

CHOOSE ONE OF THE FOLLOWING SEQUENCES:
SEQUENCE A

HISTORY 005	History of the Americas I	(3)
HISTORY 006	History of the Americas II	(3)

SEQUENCE B

HISTORY 011	Political and Social History of the United States to 1877	(3)
HISTORY 012	Political and Social History of the United States from 1865	(3)

COMPLETE 2 COURSES FROM THE FOLLOWING:

HISTORY 007	The World's Great Religions	(3)
HISTORY 020	History of California and the Pacific Coast	(3)
HUMAN 006	Great People, Great Ages	(3)
HUMAN 008	Great Women in the Humanities	(3)

Total: 18

HUMANITIES
HUMANITIES (AA)
(Program Code 490300, State Code 02989)

The Humanities Program is interdisciplinary and involves critical and comparative study of philosophy, religion, literature, and the visual and performing arts across human cultures in different times and places. Students will examine the art, literature, ideas, movements, and individuals that have helped to define values, civilizations, and the human condition. Study of the Humanities provides a solid fundamental preparation for careers in the arts and education. This degree can serve as the basis for further undergraduate education in humanities.

COMPLETE THE FOLLOWING 3 REQUIRED COURSES:

HUMAN 001	Cultural Patterns of Western Civilization	3
HUMAN 003	The Arts of Contemporary Society	3
HUMAN 030	The Beginnings of Civilization	3

PLUS ONE COURSE CHOSEN FROM EACH OF THE THREE CATEGORIES LISTED BELOW:

The Arts

ART 101	Survey of Art History I	(3)
ART 102	Survey of Art History II	(3)
ENGLISH 203*	World Literature I	(3)
ENGLISH 204*	World Literature II	(3)
MUSIC 121*	Music History and Literature I	(3)
MUSIC 122*	Music History and Literature II	(3)
THEATER 110	History of the World Theater	(3)

Additional Civilization Courses

HISTORY 001	Introduction to Western Civilization I	(3)
HISTORY 002	Introduction to Western Civilization II	(3)
HUMAN 002	Studies in Selected Cultures	(3)
HUMAN 006	Great Men, Great Eras	(3)
HUMAN 008	Great Women in the Humanities	(3)

Religious and Philosophical Ideas

PHILOS 001	Introduction to Philosophy	(3)
PHILOS 012	History of Greek Philosophy	(3)
PHILOS 014	History of Modern European Philosophy	(3)

Total: 18

*# Cross-referenced course. * This course has a prerequisite or corequisite.*

DEGREES AND CREDIT CERTIFICATES

ITALIAN

ITALIAN (AA)

(Program Code 110400, State Code 02966)

This degree provides solid foundation in the study of Italian for those wishing to continue their education in languages. Students will be able to demonstrate effective skills in the four major areas of language study (reading, writing, speaking, listening comprehension), and demonstrate knowledge of the global society, and the role of Italy and of the Italian language and culture in the contemporary world.

COMPLETE THE FOLLOWING 1 REQUIRED COURSE:

LING 001	Introduction to Language and Linguistics	4

COMPLETE 3 COURSES FROM THE FOLLOWING:

ITALIAN 001	Elementary Italian I	(5)
ITALIAN 002*	Elementary Italian II	(5)
ITALIAN 003*	Intermediate Italian I	(5)
ITALIAN 004*	Intermediate Italian II	(5)
ITALIAN 005*	Advanced Italian I	(5)

Total: 19

JEWISH STUDIES

JEWISH STUDIES (AA)

(Program Code 220301, State Code 08563)

This degree enables students to appreciate the rich culture and heritage of the Jewish people from the biblical epoch to the contemporary modern experience; to help students understand the Jewish contribution to world culture in general and to Western culture in particular; and to develop the skills to read and interpret relevant sources. This degree will help prepare students for upper division coursework in Jewish Studies.

COMPLETE THE FOLLOWING 5 REQUIRED COURSES:

HEBREW 001	Elementary Hebrew I	5
HEBREW 002	Elementary Hebrew II	5
JEWISH 002	The Jewish Religious Heritage	3
JEWISH 025	The History of the Jewish People	3
PHILOS 035	Judaism, Christianity & Islam	3

Total: 19

JOURNALISM

For the Associate in Arts in Journalism for Transfer Degree see page 50.

Students earning the Journalism AA Degrees have obtained skills for entry level employment in journalism (print, online, and photography) or for career advancement.

JOURNALISM: MAGAZINE (AA)

(Program Code 060201, State Code 08533)

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:

ART 619	Advertising Photo/Graphics II	4
JOURNAL 101	Collecting and Writing News	3
JOURNAL 105	Mass Communications	3
JOURNAL 106	Mechanics of Expression	3
JOURNAL 108	Article Writing	3
JOURNAL 220*	Magazine Production	3

Total: 19

JOURNALISM: NEWSPAPER (AA)

(Program Code 060202, State Code 02950)

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:

ART 619	Advertising Photo/Graphics II	4
JOURNAL 101	Collecting and Writing News	3
JOURNAL 105	Mass Communications	3
JOURNAL 106	Mechanics of Expression	3
JOURNAL 202*	Advanced Newswriting	3
JOURNAL 218-1*	Practical Editing I	3

Total: 19

JOURNALISM: PHOTOJOURNALISM (AA)

(Program Code 060203, State Code 08534)

An Associate in Arts degree in Photojournalism provides a foundation for students who wish to transfer or find employment in entry level positions as staff photographers or freelance photojournalist. At the completion of this program, students have gained demonstrable understanding of photography/ photojournalism principles and techniques. They also gain hands-on experience with cameras, lighting equipment and state-of-art computers and imaging software.

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:

JOURNAL 101	Collecting and Writing News	3
JOURNAL 105	Mass Communications	3
PHOTO 011*	Advanced Photography	4
PHOTO 020	Beginning Photojournalism	4
PHOTO 021*	News Photography	4
PHOTO 101	Beginning Digital Photography	(3)

COMPLETE 1 COURSE FROM THE FOLLOWING:

ART 125	History of Photography I	3
JOURNAL 218-1	Practical Editing I	3
PHOTO 10	Beginning Photography	(3)

Total: 24

CERTIFICATE REQUIREMENTS:

CERTIFICATE OF ACHIEVEMENT IN JOURNALISM: MAGAZINE

(Program Code 060201, State Code 21884)

A Certificate of Achievement in Journalism: Magazine provides a foundation for students who wish to seek positions such as: article writer, magazine editor, speech writer, in-house publications editor, writer for on-line publications and proof reader.

Estimated time to complete: 1 year.

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:

JOURNAL 043	Public Relations	3
JOURNAL 101	Collecting and Writing the News	3
JOURNAL 105	Mass Communications	3
JOURNAL 106	Grammar and Communication	3
JOURNAL 108	Article Writing	3
JOURNAL 202	Advanced Newswriting	3

Total: 18

*# Cross-referenced course. * This course has a prerequisite or corequisite.*

CERTIFICATE OF ACHIEVEMENT IN JOURNALISM: NEWSPAPER

(Program Code 060202, State Code 21885)

A Certificate of Achievement in Journalism: Newspaper, provides a foundation for students who wish to seek positions such as: newspaper reporter, newspaper editor, public relations writer, publicist, writer for on-line publications and proof readers.

Estimated time to complete: 1 year.
COMPLETE THE FOLLOWING 5 REQUIRED COURSES:

JOURNAL 101	Collecting and Writing News	3
JOURNAL 105	Mass Communications	3
JOURNAL 106	Mechanics of Expression	3
JOURNAL 202*	Advanced Newswriting	3
JOURNAL 218-1	Practical Editing I	3

COMPLETE 6 UNITS FROM THE FOLLOWING COURSES:

BRDCSTG 001	Fundamentals of Television and Radio Broadcasting	(3)
JOURNAL 108	Article Writing	(3)
JOURNAL 220*	Magazine Production	(3)
JOURNAL 385	Directed Study-Journalism	(3)
JOURNAL 911	Cooperative Education-Journalism	(1)
JOURNAL 921	Cooperative Education-Journalism	(2)
JOURNAL 931	Cooperative Education-Journalism	(3)
JOURNAL 941	Cooperative Education-Journalism	(4)
PHOTO 101	Beginning Digital Photography	(3)

Total: 21

CERTIFICATE OF ACHIEVEMENT IN JOURNALISM: PHOTOJOURNALISM

(Program Code 060203, State Code 21886)

A Certificate of Achievement in Photojournalism provides a comprehensive foundation for students who wish to work as visual communicators in mass media. At the completion of this program, students have gained demonstrable understanding of photography/ photojournalism principles and techniques. They also gain hands-on experience with digital cameras, lighting equipment and state-of-art computers and imaging software.

Estimated time to Complete: 1.5 years.

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:

JOURNAL 101	Collecting and Writing News	3
JOURNAL 218-1	Practical Editing I	3
PHOTO 011*	Advanced Photography	4
PHOTO 020	Beginning Photojournalism	4
PHOTO 021*	News Photography	4
PHOTO 101	Beginning Digital Photography	3

COMPLETE 1 COURSE FROM THE FOLLOWING:

ART 125	History of Photography I	(3)
JOURNAL 105	Mass Communications	(3)
PHOTO 010	Beginning Photography	(3)

COMPLETE 3 UNITS FROM THE FOLLOWING COURSES:

JOURNAL 108	Article Writing	(3)
JOURNAL 385	Directed Study-Journalism	(3)
JOURNAL 911	Cooperative Education-Journalism	(1)
JOURNAL 921	Cooperative Education-Journalism	(2)
JOURNAL 931	Cooperative Education-Journalism	(3)
JOURNAL 941	Cooperative Education-Journalism	(4)

Total: 27

LIBERAL STUDIES

For the Associate in Arts in Elementary Teacher Education for Transfer Degree see page 48.

LIBERAL STUDIES: MULTIPLE SUBJECT TEACHER PREP (AA)

(Program Code 490121, State Code 18168)

The Liberal Studies Associate degree is designed to provide an Associate degree for the student planning to transfer to CSU Northridge as a Liberal Studies major with a Multiple Subject Teacher Prep Option in order to prepare for elementary school teaching. The courses listed below are among the lower division requirements of that CSUN major.

COMPLETE THE FOLLOWING 10 REQUIRED COURSES:

BIOLOGY 003	Introduction to Biology	4
CH DEV 044*	Early Intervention for Children with Special Needs	3
COMM 101	Public Speaking	3
ENGLISH 101*	College Reading and Composition I	3
GEOG 002	Cultural Elements of Geography	3
HISTORY 086	Introduction to World Civilization I	3
MATH 215*	Principles of Mathematics I	3
PHYS SC 001	Physical Science I	4
PHYS SC 014*	Physical Science Laboratory	1
POL SCI 001	The Government of the United States	3

CRITICAL THINKING

COMPLETE 1 COURSE FROM THE FOLLOWING:

COMM 105*	Critical Thinking	(3)
ENGLISH 103*	Composition and Critical Thinking	(3)
PHILOS 006	Logic in Practice	(3)

INTRODUCTION TO LITERATURE

COMPLETE 1 COURSE FROM THE FOLLOWING:

AFRO AM 020	African American Literature I	(3)
CHICANO 042#	Contemporary Mexican Literature	(3)
ENGLISH 102*	College Reading and Composition II	(3)
ENGLISH 203*	World Literature I	(3)
ENGLISH 204*	World Literature II	(3)
ENGLISH 205*	English Literature I	(3)
ENGLISH 206*	English Literature II	(3)
ENGLISH 207*	American Literature I	(3)
ENGLISH 208*	American Literature II	(3)

PERFORMING AND VISUAL ARTS

COMPLETE 1 COURSE FROM THE FOLLOWING:

ART 101	Survey of Art History I	(3)
ART 102	Survey of Art History II	(3)
ART 103	Art Appreciation I	(3)
ART 105	History of Asian Art	(3)
ART 109	The Arts of Africa, Oceania, and Ancient America	(3)
MUSIC 111	Music Appreciation I	(3)

U.S. HISTORY

COMPLETE 1 COURSE FROM THE FOLLOWING:

AFRO AM 004	The African-American in the History of the United States I	(3)
HISTORY 011	Political and Social History of the United States to 1877	(3)

INTRODUCTION TO LINGUISTICS

COMPLETE 1 COURSE FROM THE FOLLOWING:

ENGLISH 105	Introduction to Language and Linguistics	(3)
LING 001	Introduction to Language and Linguistics	(3)

*# Cross-referenced course. * This course has a prerequisite or corequisite.*

DEGREES AND CREDIT CERTIFICATES

CHILD DEVELOPMENT

COMPLETE 1 COURSE FROM THE FOLLOWING: 3
CH DEV 001*   Child Growth and Development   (3)
PSYCH 011*   Child Psychology   (3)

Total: 48

MATHEMATICS

For the Associate in Science in Mathematics for Transfer Degree see page 51.

MEDIA ARTS

(Also See Cinema)

MEDIA ARTS: DIRECTING (AA)
(Program Code 060101, State Code 17624)

*Please see departmental flow chart for guidance on sequence of coursework.

The successful completion of this degree will give students a thorough background in the aesthetics of film and media, and experience directing a cast and crew in the production of a short motion picture or episodic project. *Estimated time to complete: 2 years.*

COMPLETE THE FOLLOWING 5 REQUIRED COURSES:
CINEMA 105   History of Motion Pictures   3
CINEMA 107   Understanding Motion Pictures   3
MEDIART 100   The Entertainment Industry: Breaking In   3
MEDIART 116   Introduction to Screenwriting   3
MEDIART 118*   Directing   3

LIST A: COMPLETE 1 COURSE FROM THE FOLLOWING:
CINEMA 101*   Beginning Film Production   (3)
MEDIART 101*   Introduction to Digital Film/Video Production   (3)
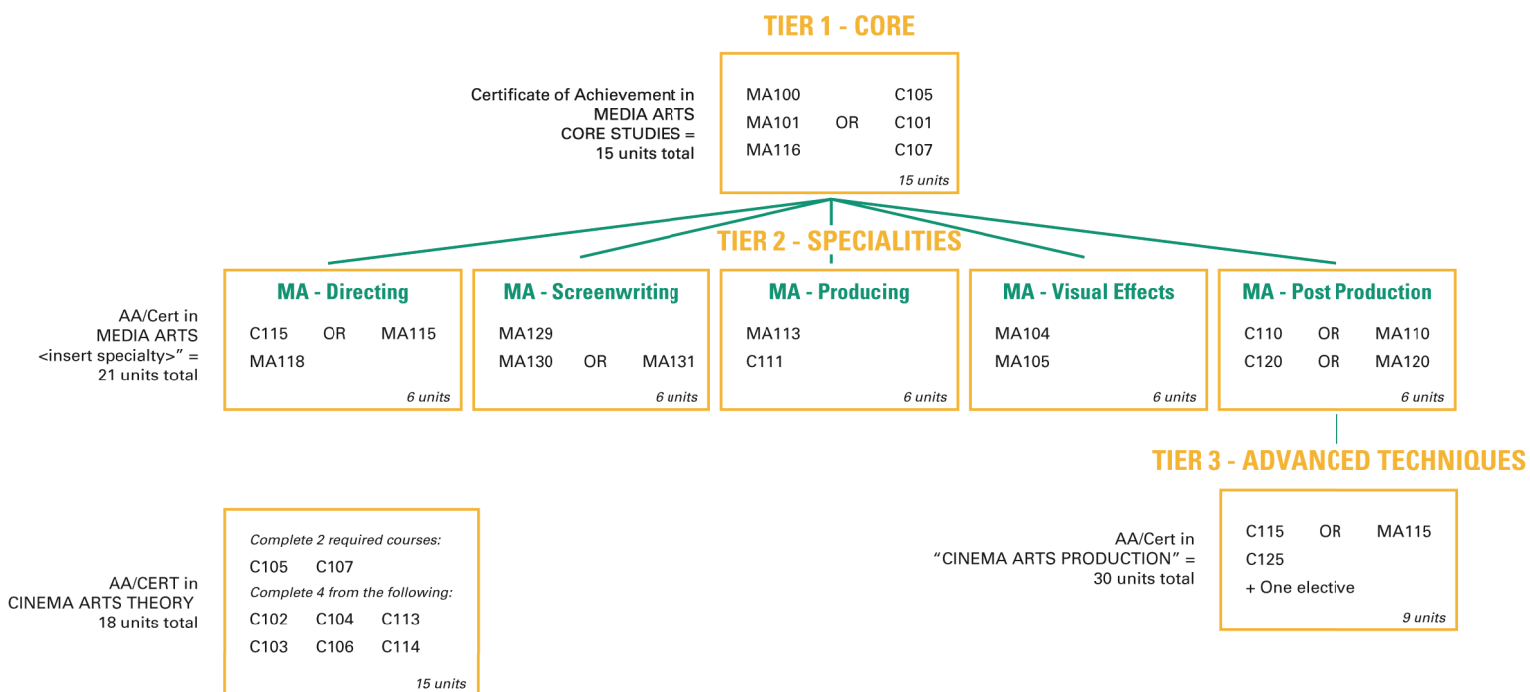
LIST B: COMPLETE 1 COURSE FROM THE FOLLOWING:
CINEMA 115*   Cinematography   (3)
MEDIART 115*   Digital Cinematography   (3)

Total: 21

 # Cross-referenced course. * This course has a prerequisite or corequisite.

CINEMA / MEDIA ARTS FLOW CHART

TIER 1 - CORE

Certificate of Achievement in
MEDIA ARTS
CORE STUDIES =
15 units total

MA100		C105
MA101	OR	C101
MA116		C107

15 units

TIER 2 - SPECIALITIES

AA/Cert in
MEDIA ARTS
<insert specialty>" =
21 units total

MA - Directing

C115	OR	MA115
MA118		

6 units

MA - Screenwriting

MA129		
MA130	OR	MA131

6 units

MA - Producing

MA113
C111

6 units

MA - Visual Effects

MA104
MA105

6 units

MA - Post Production

C110	OR	MA110
C120	OR	MA120

6 units

TIER 3 - ADVANCED TECHNIQUES

AA/Cert in
"CINEMA ARTS PRODUCTION" =
30 units total

C115	OR	MA115
C125		
+ One elective		

9 units

AA/CERT in
CINEMA ARTS THEORY
18 units total

Complete 2 required courses:
C105   C107
Complete 4 from the following:
C102   C104   C113
C103   C106   C114

15 units

AS-T in Film, Television, & Electronic Media also available. Please see the "Associate Degrees for Transfers" section of the catalog.

DEGREES AND CREDIT CERTIFICATES

MEDIA ARTS: POST-PRODUCTION (AA)

(Program Code 060104, State Code 17625)

*Please see departmental flow chart for guidance on sequence of coursework.

The successful completion of this degree will give students a thorough background in the aesthetics of film and media, and experience in post-production solving editing and sound design challenges in motion picture and episodic projects. *Estimated time to complete: 2 years.*

COMPLETE THE FOLLOWING 4 REQUIRED COURSES:
CINEMA 105	History of Motion Pictures	3
CINEMA 107	Understanding Motion Pictures	3
MEDIART 100	The Entertainment Industry: Breaking In	3
MEDIART 116	Introduction to Screenwriting	3

LIST A: COMPLETE 1 COURSE FROM THE FOLLOWING:
CINEMA 101*	Beginning Film Production	(3)
MEDIART 101*	Introduction to Digital Film/Video Production	(3)

LIST B: COMPLETE 1 COURSE FROM THE FOLLOWING:
CINEMA 110*	Motion Picture Sound	(3)
MEDIART 110*	Digital Film Sound	(3)

LIST C: COMPLETE 1 COURSE FROM THE FOLLOWING:
CINEMA 120*	Film Editing	(3)
MEDIART 120*	Digital Film Editing	(3)

Total: 21

MEDIA ARTS: PRODUCING (AA)

(Program Code 060103, State Code 17626)

*Please see departmental flow chart for guidance on sequence of coursework.

The successful completion of this degree will give students a thorough background in the aesthetics of film and media, and experience organizing, budgeting, scheduling, marketing, promoting, and pitching motion picture and episodic projects. *Estimated time to complete: 2 years.*

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:
CINEMA 105	History of Motion Pictures	3
CINEMA 107	Understanding Motion Pictures	3
MEDIART 100	The Entertainment Industry: Breaking In	3
MEDIART 116	Introduction to Screenwriting	3
CINEMA 111	Developing Content for Movies and TV	3
MEDIART 113	Low Budget Producing	3

LIST A: COMPLETE 1 COURSE FROM THE FOLLOWING:
CINEMA 101*	Beginning Film Production	(3)
MEDIART 101*	Introduction to Digital Film/Video Production	(3)

Total: 21

MEDIA ARTS: SCREENWRITING (AA)

(Program Code 060102, State Code 17627)

*Please see departmental flow chart for guidance on sequence of coursework.

The successful completion of this degree will give students a thorough background in the aesthetics of film and media, and experience writing various screenplays from short and feature length motion pictures to episodic projects. *Estimated time to complete: 2 years.*

COMPLETE THE FOLLOWING 5 REQUIRED COURSES:
CINEMA 105	History of Motion Pictures	3
CINEMA 107	Understanding Motion Pictures	3
MEDIART 100	The Entertainment Industry: Breaking In	3
MEDIART 116	Introduction to Screenwriting	3
MEDIART 129	Mythology, Spirituality and the Art of Story	3

LIST A COMPLETE 1 COURSE FROM THE FOLLOWING:
CINEMA 101*	Beginning Film Production	(3)
MEDIART 101*	Introduction to Digital Film/Video Production	(3)

LIST B COMPLETE 1 COURSE FROM THE FOLLOWING:
MEDIART 130*	Advanced Screenwriting	(3)
MEDIART 131*	Advanced Episodic Writing	(3)

Total: 21

MEDIA ARTS: VISUAL EFFECTS (AA)

(Program Code 061220, State Code 37296)

*Please see departmental flow chart for guidance on sequence of coursework.

The successful completion of this degree will give students a thorough background in the aesthetics of film and media, and experience in titling, 3D modeling, color grading/correction, and various other visual effects for motion picture and episodic projects. *Estimated time to complete: 2 years.*

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:
CINEMA 105	History of Motion Pictures	3
CINEMA 107	Understanding Motion Pictures	3
MEDIART100	The Entertainment Industry: Breaking In	3
MEDIART 104	Photoshop for Motion Pictures and Television	3
MEDIART 105*	Visual Effects and Color Grading	3
MEDIART 116	Introduction to Screenwriting	3

LIST A COMPLETE 1 COURSE FROM THE FOLLOWING:
CINEMA 101*	Beginning Film Production	(3)
MEDIART 101*	Introduction to Digital Film/Video Production	(3)

Total: 21

CERTIFICATE REQUIREMENTS:
CERTIFICATE OF ACHIEVEMENT IN MEDIA ARTS: CORE STUDIES

(Program Code 061210, State Code 37297)

*Please see departmental flow chart for guidance on sequence of coursework.

The successful completion of this degree will give students a basic foundation in the aesthetics of film and media, with some experience directing a cast and crew in the production of a short motion picture or episodic project. *Estimated time to complete: 1 year.*

COMPLETE THE FOLLOWING 4 REQUIRED COURSES:
CINEMA 105	History of Motion Pictures	3
CINEMA 107	Understanding Motion Pictures	3
MEDIART 100	The Entertainment Industry: Breaking In	3
MEDIART 116	Introduction to Screenwriting	3

LIST A COMPLETE 1 COURSE FROM THE FOLLOWING:
CINEMA 101*	Beginning Film Production	(3)
MEDIART 101*	Introduction to Digital Film/Video Production	(3)

Total: 15

Cross-referenced course. * This course has a prerequisite or corequisite.

DEGREES AND CREDIT CERTIFICATES

CERTIFICATE OF ACHIEVEMENT IN MEDIA ARTS: DIRECTING

(Program Code 060101, State Code 21880)

*Please see departmental flow chart for guidance on sequence of coursework.

The successful completion of this degree will give students a thorough background in the aesthetics of film and media, and experience directing a cast and crew in the production of a short motion picture or episodic project. *Estimated time to complete: 2 years.*

COMPLETE THE FOLLOWING 5 REQUIRED COURSES:

CINEMA 105	History of Motion Pictures	3
CINEMA 107	Understanding Motion Pictures	3
MEDIART 100	The Entertainment Industry: Breaking In	3
MEDIART 116	Introduction to Screenwriting	3
MEDIART 118*	Directing	3

LIST A: COMPLETE 1 COURSE FROM THE FOLLOWING:

CINEMA 101*	Beginning Film Production	(3)
MEDIART 101*	Introduction to Digital Film Production	(3)

LIST B: COMPLETE 1 COURSE FROM THE FOLLOWING:

CINEMA 115*	Cinematography	(3)
MEDIART 115*	Digital Cinematography	(3)

Total: 21

CERTIFICATE OF ACHIEVEMENT IN MEDIA ARTS: POST-PRODUCTION

(Program Code 060104, State Code 21881)

*Please see departmental flow chart for guidance on sequence of coursework.

The successful completion of this degree will give students a thorough background in the aesthetics of film and media, and experience in post-production solving editing and sound design challenges in motion picture and episodic projects. *Estimated time to complete: 2 years.*

COMPLETE THE FOLLOWING 4 REQUIRED COURSES:

CINEMA 105	History of Motion Pictures	3
CINEMA 107	Understanding Motion Pictures	3
MEDIART 100	The Entertainment Industry: Breaking In	3
MEDIART 116	Introduction to Screenwriting	3

LIST A: COMPLETE 1 COURSE FROM THE FOLLOWING:

CINEMA 101*	Beginning Film Production	(3)
MEDIART 101*	Introduction to Digital Film Production	(3)

LIST B: COMPLETE 1 COURSE FROM THE FOLLOWING:

CINEMA 110*	Motion Picture Sound	(3)
MEDIART 110*	Digital Film Sound	(3)

LIST C: COMPLETE 1 COURSE FROM THE FOLLOWING:

CINEMA 120*	Film Editing	(3)
MEDIART 120*	Digital Film Editing	(3)

Total: 21

CERTIFICATE OF ACHIEVEMENT IN MEDIA ARTS: PRODUCING

(Program Code 060103, State Code 21882)

*Please see departmental flow chart for guidance on sequence of coursework.

The successful completion of this degree will give students a thorough background in the aesthetics of film and media, and experience organizing, budgeting, scheduling, marketing, promoting, and pitching motion picture and episodic projects. *Estimated time to complete: 2 years.*

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:

CINEMA 105	History of Motion Pictures	3
CINEMA 107	Understanding Motion Pictures	3
MEDIART 100	The Entertainment Industry: Breaking In	3
MEDIART 116	Introduction to Screenwriting	3
CINEMA 111	Developing Content for Movies and TV	3
MEDIART 113	Low Budget Producing	3

LIST A: COMPLETE 1 COURSE FROM THE FOLLOWING:

CINEMA 101*	Beginning Film Production	(3)
MEDIART 101*	Introduction to Digital Film/Video Production	(3)

Total: 21

CERTIFICATE OF ACHIEVEMENT IN MEDIA ARTS: SCREENWRITING

(Program Code 060102, State Code 21883)

*Please see departmental flow chart for guidance on sequence of coursework.

The successful completion of this degree will give students a thorough background in the aesthetics of film and media, and experience writing various screenplays from short and feature length motion pictures to episodic projects. *Estimated time to complete: 2 years.*

COMPLETE THE FOLLOWING 5 REQUIRED COURSES:

CINEMA 105	History of Motion Pictures	3
CINEMA 107	Understanding Motion Pictures	3
MEDIART 100	The Entertainment Industry: Breaking In	3
MEDIART 116	Introduction to Screenwriting	3
MEDIART 129	Mythology, Spirituality and the Art of Story	3

LIST A: COMPLETE 1 COURSE FROM THE FOLLOWING:

CINEMA 101*	Beginning Film Production	(3)
MEDIART 101*	Introduction to Digital Film Production	(3)

LIST B: COMPLETE 1 COURSE FROM THE FOLLOWING:

MEDIART 130*	Advanced Screenwriting	(3)
MEDIART 131*	Advanced Episodic Writing	(3)

Total: 21

CERTIFICATE OF ACHIEVEMENT IN MEDIA ARTS: VISUAL EFFECTS

(Program Code 061220, State Code 37298)

*Please see departmental flow chart for guidance on sequence of coursework.

The successful completion of this degree will give students a thorough background in the aesthetics of film and media, and experience in titling, 3D modeling, color grading/correction, and various other visual effects for motion picture and episodic projects. *Estimated time to complete: 2 years.*

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:

CINEMA 105	History of Motion Pictures	3
CINEMA 107	Understanding Motion Pictures	3
MEDIART 100	he Entertainment Industry: Breaking In	3
MEDIART 104	Photoshop for Motion Pictures and TV	3
MEDIART 105*	Visual Effects and Color Grading	3
MEDIART 116	Introduction to Screenwriting	3

LIST A: COMPLETE 1 COURSE FROM THE FOLLOWING:

CINEMA 101*	Beginning Film Production	(3)
MEDIART 101*	Introduction to Digital Film Production	(3)

Total: 21

Cross-referenced course. * This course has a prerequisite or corequisite.

MUSIC

For the Associate in Arts in Music for Transfer Degree see page 51.

COMMERCIAL MUSIC (AA)

(Program Code 100500, State Code 08545)

Students earning the Commercial Music AA Degree have obtained skills for entry-level employment in the music industry or for career advancement. Music 101 is not part of the degree but is a prerequisite for courses in the degree. Students are strongly encouraged to complete Music 101 early in their academic program.

COMPLETE THE FOLLOWING 13 REQUIRED COURSES:

MUSIC 137	Music As A Business	3
MUSIC 141	Jazz Appreciation	3
MUSIC 161	Introduction to Music Technology	3
MUSIC 165	Introduction to Recording Arts	3
MUSIC 205*	Commercial Harmony I	3
MUSIC 206*	Commercial Harmony II	3
MUSIC 241	Music Notation and Copying I	1
MUSIC 242*	Music Notation and Copying II	1
MUSIC 265-1*	Recording Arts Workshop I	3
MUSIC 271	Songwriters' Workshop I	3
MUSIC 281*	Commercial Music Techniques I	3
MUSIC 321	Elementary Piano I	2
MUSIC 322*	Elementary Piano II	2

COMPLETE 2 COURSES FROM THE FOLLOWING (COURSES MAY BE REPEATED):

MUSIC 501	College Choir	(1)
MUSIC 531	Philharmonic Choir	(1)
MUSIC 563	Chamber Singers	(1.5)
MUSIC 721	Orchestra	(1)
MUSIC 751	Wind Ensemble	(1)
MUSIC 771	Guitar Ensemble	(1)

Total: 35-38

MUSIC (AA)

(Program Code 100400, State Code 02962)

The Music AA degree can serve as the basis for further undergraduate education in music. Music 200 is not part of the degree but is a prerequisite for courses in the degree. Students are strongly encouraged to complete Music 200 early in their academic program.

COMPLETE THE FOLLOWING 17 REQUIRED COURSES:

MUSIC 121*	Music History and Literature I		3
MUSIC 122*	Music History and Literature II		3
MUSIC 152	Current Musical Events		1
MUSIC 181	Applied Music I	0.5	
MUSIC 182*	Applied Music II	0.5	
MUSIC 183*	Applied Music III	0.5	
MUSIC 184*	Applied Music IV	0.5	
MUSIC 201*	Harmony I		3
MUSIC 202*	Harmony II		3
MUSIC 203*	Harmony III		3
MUSIC 211*	Musicianship I		1
MUSIC 212*	Musicianship II		1
MUSIC 213*	Musicianship III		1
MUSIC 241	Music Notation and Copying I		1
MUSIC 250-1	Music Performance Workshop I		1
MUSIC 250-2	Music Performance Workshop II		1
MUSIC 324*	Elementary Piano IV		2

COMPLETE 4 COURSES FROM THE FOLLOWING: (COURSES MAY BE REPEATED):

MUSIC 501	College Choir	(1)
MUSIC 531	Philharmonic Choir	(1)
MUSIC 563	Chamber Singers	(1.5)
MUSIC 721	Orchestra	(1)
MUSIC 751	Wind Ensemble	(1)
MUSIC 771	Guitar Ensemble	(1)

COMPLETE 1 COURSE FROM THE FOLLOWING:

MUSIC 111	Music Appreciation I	(3)
MUSIC 136	Music in American Culture	(3)
MUSIC 137	Music as a Business	(3)
MUSIC 141	Jazz Appreciation	(3)
MUSIC 161	Introduction to Music Technology	(3)
MUSIC 165	Introduction to Recording Arts	(3)
MUSIC 205*	Commercial Harmony I	(3)
MUSIC 206*	Commercial Harmony II	(3)
MUSIC 271	Songwriters' Workshop	(3)
MUSIC 281*	Commercial Music Techniques I	(3)

Total: 33-35

CERTIFICATE REQUIREMENTS:
COMMERCIAL MUSIC CERTIFICATES

The following certificates can lead to positions such as: Recording Technician; Composer/Arranger; Music Copyist; and Musician/Performer.

Estimated time to complete: 1- 2 years depending on certificate.

CERTIFICATE OF ACHIEVEMENT IN COMMERCIAL MUSIC: INSTRUMENTAL/VOCAL PERFORMER

(Program Code 100504, State Code 11546)

COMPLETE THE FOLLOWING 8 REQUIRED COURSES:

MUSIC 137	Music As a Business	3
MUSIC 200	Introduction to Music Theory	4
MUSIC 201*	Harmony I	3
MUSIC 205*	Commercial Harmony I	3
MUSIC 206*	Commercial Harmony II	3
MUSIC 211*	Musicianship I	1
MUSIC 212*	Musicianship II	1
MUSIC 321	Elementary Piano I	2

COMPLETE 3 COURSES FROM THE FOLLOWING: (COURSES MAY BE REPEATED):

MUSIC 501	College Choir	(1)
MUSIC 531	Philharmonic Choir	(1)
MUSIC 563	Chamber Singers	(1.5)
MUSIC 721	Orchestra	(1)
MUSIC 751	Wind Ensemble	(1)
MUSIC 771	Guitar Ensemble	(1)

COMPLETE 9 UNITS FROM THE FOLLOWING COURSES:

MUSIC 111	Music Appreciation I	(3)
MUSIC 121*	Music History and Literature I	(3)
MUSIC 122*	Music History and Literature II	(3)
MUSIC 141	Jazz Appreciation	(3)
MUSIC 161	Introduction to Music Technology	(3)
MUSIC 165	Introduction to Recording Arts	(3)
MUSIC 202*	Harmony II	(3)
MUSIC 203*	Harmony III	(3)
MUSIC 213*	Musicianship III	(1)
MUSIC 241	Music Notation and Copying I	(1)
MUSIC 242*	Music Notation and Copying II	(1)
MUSIC 265*	Recording Arts Workshop	(3)
MUSIC 281*	Commercial Music Techniques I	(3)

*# Cross-referenced course. * This course has a prerequisite or corequisite.*

MUSIC 322*	Elementary Piano II	(2)
MUSIC 323*	Elementary Piano III	(2)
MUSIC 324*	Elementary Piano IV	(2)
MUSIC 411	Elementary Voice I	(2)
MUSIC 412*	Elementary Voice II	(2)
MUSIC 413*	Elementary Voice III	(2)
MUSIC 414*	Elementary Voice IV	(2)
MUSIC 453*	Musical Theater Repertoire for Singers	(1)
MUSIC 650	Beginning Guitar	(2)
MUSIC 651	Classical Guitar I	(2)
MUSIC 652*	Classical Guitar II	(2)
MUSIC 653*	Classical Guitar III	(2)
MUSIC 654*	Classical Guitar IV	(2)

Total: 32-33.5

CERTIFICATE OF ACHIEVEMENT IN COMMERCIAL MUSIC: JAZZ STUDIES

(Program Code 100500, State Code 31765)

The Jazz Studies certificate provides the student with career preparation for entry-level positions in the growing field of jazz studies. Students gain requisite skill sets, including mastery of jazz theory and techniques. Students collaborate with other students, arranging and performing jazz in a variety of situations, developing partnerships indicative of those that exist in a professional environment. Students benefit from the hands-on approach offered by Commercial Music faculty, with labs and ensembles being a primary source of both direct and collateral learning.

Estimated time to complete: 1.5 years.

COMPLETE THE FOLLOWING 8 REQUIRED COURSES:

MUSIC 137	Music as a Business	3
MUSIC 141	Jazz Appreciation	3
MUSIC 205*	Commercial Harmony I	3
MUSIC 206*	Commercial Harmony II	3
MUSIC 281*	Commercial Techniques I	3
MUSIC 321	Elementary Piano I	2
MUSIC 322*	Elementary Piano II	2
MUSIC 780	Jazz Combo Workshop	1

Total: 20

CERTIFICATE OF ACHIEVEMENT IN COMMERCIAL MUSIC: MUSIC ARRANGING

(Program Code 100503, State Code 11545)

The Certificate of Achievement in Music Arranging is designed for students pursuing careers in this field.   The Certificate of Achievement in Music Arranging provides students with skills in music theory, ear-training, notation and arranging techniques, and music software used in the associated fields of Media Arts, Art, Dance and Theater. Students enjoy the hands-on approach offered by Commercial Music faculty.

COMPLETE THE FOLLOWING 11 REQUIRED COURSES:

MUSIC 137	Music as a Business	3
MUSIC 141	Jazz Appreciation	3
MUSIC 161	Introduction to Music Technology	3
MUSIC 205*	Commercial Harmony I	3
MUSIC 206*	Commercial Harmony II	3
MUSIC 241	Music Notation and Copying I	1
MUSIC 242*	Music Notation and Copying II	1
MUSIC 271'	Songwriters' Workshop I	3
MUSIC 281*	Commercial Music Techniques I	3
MUSIC 282*	Commercial Music Techniques II	3
MUSIC 321	Elementary Piano I	2

Total: 28

CERTIFICATE OF ACHIEVEMENT IN COMMERCIAL MUSIC: MUSIC NOTATION

(Program Code 100505, State Code 31399)

Music Notation provides the student with career preparation for entry-level positions in the burgeoning fields of music notation and publishing. The student will learn and apply various music notation formats using computer software. Students collaborate with other students within the Music Department, developing partnerships indicative of those that exist in a professional environment. Students benefit from the hands-on approach offered by Commercial Music faculty, with labs being a primary source of learning.

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:

MUSIC 101	Fundamentals of Music	3
MUSIC 137	Music as a Business	3
MUSIC 161	Introduction to Music Technology	3
MUSIC 241	Music Notation and Copying I	1
MUSIC 242*	Music Notation and Copying II	1
MUSIC 321	Elementary Piano I	2

Total: 13

CERTIFICATE OF ACHIEVEMENT IN COMMERCIAL MUSIC: MUSIC TECHNOLOGY

(Program Code 100502, State Code 08546)

The Music Technology certificate provides the student with career preparation for entry level positions in the growing field of music technology. Students benefit from the hands-on approach offered by Commercial Music faculty with labs being a primary source of both direct and collateral learning.

COMPLETE THE FOLLOWING 8 REQUIRED COURSES:

MUSIC 101	Fundamentals of Music	3
MUSIC 137	Music as a Business	3
MUSIC 161	Introduction to Music Technology	3
MUSIC 165	Introduction to Recording Arts	3
MUSIC 241	Music Notation and Copying I	1
MUSIC 265-1	Recording Arts Workshop I	3
MUSIC 270	DJ Workshop	3
MUSIC 321	Elementary Piano I	2

Total: 21

*# Cross-referenced course. * This course has a prerequisite or corequisite.*

NURSING
REGISTERED NURSE (AS)
(Program Code 123010, State Code 02969)

Students entering the Nursing program must follow the LACCD GE Plan in the catalog.

REGISTERED NURSING PROGRAM
The Associate Degree Registered Nursing Program is approved by the California Board of Registered Nursing (BRN) www.rn.ca.gov and accredited by the Accreditation Commission for Education in Nursing (ACEN) www.acenursing.org. The nursing program is designed to prepare graduates to function at entry level Registered Nurses in the Health Care delivery system.

The Nursing Program is comprised of 39.5 units of Nursing Theory and Clinical experience plus approximately 31 units of science and general education courses. Clinical experiences are provided in hospitals and various health care facilities in the community. The clinical experience correlates with classroom teaching of nursing theory, skills laboratory practicum, computer assisted instruction (CAI), and simulation. Students who complete the BRN requirements and the college degree requirements will receive an Associate Degree of Science in Nursing. Students are encouraged to complete the degree requirements (i.e. attain graduation status) before taking the National Council Licensure Examination (NCLEX) www.ncsbn.org.

REQUIRED STEPS TO APPLY TO THE NURSING PROGRAM
In order to obtain a Program Application, the following steps MUST be completed well in advance of the application filing period:

1. All students except current and returning LAVC students need to submit a college application to the LAVC Admissions Office. International students must first apply to the International Student Program.

2. All U.S. transcripts outside of the Los Angeles Community College District (LACCD) must be mailed directly from the college attended to the LAVC Admissions Office. Hand-carried U.S. transcripts of any kind are NOT acceptable. Students must confirm with the Counseling office that transcripts have arrived prior to making a counseling appointment.

3. All transcripts outside of the U.S. must be evaluated according to the following procedures:

   ■ Must complete 12 units with a "C" average within the LACCD prior to submitting any petition for credit.

   ■ Submit foreign transcripts to an LAVC approved foreign transcripts evaluation service to obtain credit recommendations.

   ■ LAVC will not accept foreign transcript credit conferred by another college toward program prerequisites.

   ■ Submit to the college's Petitions Committee a sealed copy of the evaluation service's credit recommendations along with a petition for approval of credit. Credit approval by the Petitions Committee is NOT automatic (see a counselor for details).

4. Schedule an appointment with a counselor to evaluate your transcripts well in advance of the application deadline and only after completion of Steps 1 through 3. The counselor will provide students with a signed "Evaluation of transcripts for Nursing Program Prerequisites" form verifying that all nursing program prerequisites are completed with a "C" or better.

5. Apply to the Nursing Program during the application period. Students must bring the "Evaluation of Transcripts for Nursing Program Prerequisites" signed form to the Nursing Department, Allied Health and Science Room 100.

SELECTION PROCESS

■ Nursing Program application and transcripts will be evaluated using the criteria from the Chancellor's Office Validation Study. The Chancellor's Office Validation Study is based on predicting student success in the nursing program. The Chancellor's Office Validation Study evaluates the student's overall grade point average (GPA of Anatomy, Physiology, Microbiology, and English, and the repetitions of Anatomy, Physiology and Microbiology. This evaluation criterion establishes a "cut score". Students must receive a cut score of 80 or above on the Chancellor's Office Validation Study to be considered for admission into the nursing program.

■ Students who successfully receive a cut score of 80 or above on the Chancellor's Office Validation Study will be required to submit their "TEAS" (Test of Essential Academic Skills) admission examination results. Students who have previously taken the TEAS exam must call ATI to submit results to LAVC. Only the FIRST score received on the TEAS will be accepted. Students who have not taken the TEAS examination will be invited to take the examination on campus. The "ATI TEAS," effective August 2016, admission examination consists of 170 questions, proctored, standardized assessment which evaluates each student on skills in reading, math, science, and English language. Students may prepare for the "TEAS" admission examination by purchasing from the bookstore the TEAS Pre-Test Study Manual prior to taking the admission examination. The minimum required "TEAS" score is 62% to pass.

■ If the number of eligible applicants exceeds the number of seats available for entrance into the nursing program a random drawing of the eligible applicants is conducted.

■ All applicants will receive a letter of acceptance or denial from the nursing department by email after the process is completed.

■ Students accepted into the nursing program must return an acceptance card by the posted date or their seat will be given to the next eligible applicant.

■ All students not selected into the Nursing Program may reapply the next application period if they wish to be considered again; there is No waiting list.

■ NO application will be kept on file and all applications will be destroyed.

Nursing, *Continued next page*

DEGREES AND CREDIT CERTIFICATES

NURSING PROGRAM PREREQUISITES

1.   ANATOMY 001*, minimum of: (4 semester units or 6 quarter units)

2.   PHYSIOL 001*, minimum of: (4 semester units or 6 quarter units.)

3.   MICRO 020 -or- an equivalent General Microbiology course with lab minimum of: (4 semester units or 6 quarter units).

4.   PSYCH 001 minimum of: (3 semester units or 4.5 quarter units).

5.   PSYCH 041* minimum of: (3 semester units or 4.5 quarter units).

6.   ENGLISH 101* minimum of: (3 semester units or 4.5 quarter units).

7.   One college Chemistry course with a lab, CHEM 051 or equivalent, (or one year High School Chemistry with a lab).

8.   Students placed into a transfer level math course will have met the math requirement.

To graduate from the college and receive an AS degree in nursing, the following Program and General Education requirements must be completed in the order listed below and prior to graduation. The Nursing Faculty strongly encourages students to complete all coursework prior to entering the Nursing Program.

■   Communication Studies 101 minimum of: 3 semester or 4.5 quarter units must be completed prior to entering the 3rd semester of the nursing program.

■   Humanities – three semester units, area "C" of the LACCD GE Plan completed prior to entering the 4th semester of the nursing program.

■   American Institutions Requirement- 3 semester units under LACCD GE Plan Area B1, must be completed by the end of the 4th semester of the Nursing Program.

■   Kinesiology - LACCD GE Area E shall be waived for degrees in Nursing (Board Rule 6201.15).

NURSING SCIENCE COURSES

COMPLETE THE FOLLOWING 12 REQUIRED COURSES:

NRSCE 101*	Introduction to Nursing	3.5
NRSCE 102*	Fundamentals of Nursing	3.5
NRSCE 103*	Nursing Process	1
NRSCE 104*	Nursing Communication	1
NRSCE 105*	Nursing Pharmacology	2
NRSCE 106*	Medical-Surgical Nursing I	5.5
NRSCE 107*	Medical-Surgical Nursing II	5.5
NRSCE 108*	Medical-Surgical Nursing III	4
NRSCE 109*	Gerontology & Community Based	2.25
NRSCE 110*	Psychiatric-Mental Health Nursing	3.25
NRSCE 111*	Reproductive Nursing and Women's Health	4
NRSCE 112*	Care of Children and Family	4

Total: 39.5

All nursing courses must be completed with a grade of C or better to be eligible to apply for NCLEX-RN examination.

GRADUATION

Please refer to the LACCD GE Plan in this catalog. Only students who meet degree requirements are considered graduates. Degree students must petition to graduate. Petitions may be obtained in the Graduation Office. It is recommended that students petition during the third semester so that if there are problems they can be rectified during the fourth semester whenever possible.

STUDENT DISCIPLINE

Students in the nursing program are subject to the LACCD Student Code of Conduct. Violations of the code of conduct may result in suspension or expulsion from the nursing program.

ATTENDANCE

Attendance at all scheduled nursing classes, theory, clinical, and Skills Lab, is expected and if absences in hours exceed the number of hours the class meets per week, the student will be excluded from the class.

TRANSPORTATION

Each student is responsible for his or her own transportation to the clinical facilities.

WEEKEND AND EVENING ALTERNATIVE CLINICAL ROTATIONS

Some clinical experiences may be scheduled on Fridays, Saturdays and Sundays. Students must be prepared to attend alternate schedules when necessary. Child care or work schedule conflicts will not be considered a reason for exemption from an evening or weekend rotation.

ADVANCED PLACEMENT

A vocational nurse who is licensed to practice in the State of California, may apply for advanced placement. Advanced placement is not given to Certified Nursing Assistants, Psychiatric Technicians or other allied health professionals. For further information regarding career mobility options for LVNs, please contact the Health Science Office.

LVN 30-UNIT OPTION

A vocational nurse, who is licensed to practice in the State of California, may apply for LVN 30-Unit Option. LVN 30-Unit Option is not given to Certified Nursing Assistants, Psychiatric Technicians, or other allied health professionals. For further information regarding career mobility options for LVNs, please contact the Health Science Department.

CREDIT BY EXAMINATION

The Health Science Department follows the same policies as the college. See information in the Academic Policy section of this catalog. For further information, see the Department Chairperson.

ADVISEMENT

All potential nursing students must see a counselor in the counseling department prior to admission into the nursing program. Counselors are located in the Admissions area and in the Student Services Annex.

*# Cross-referenced course. * This course has a prerequisite or corequisite.*

PHILOSOPHY

For the Associate in Arts in Philosophy for Transfer Degree see page 51.

PHILOSOPHY (AA)

(Program Code 150900, State Code 02974)

Philosophy is the critical investigation of the basic concepts that shape our lives. It therefore inquires into the basic nature of concepts like truth, justice, rightness, knowledge, beauty, and reality. In addition, philosophy attempts to apply our understanding of these basic concepts to the important decisions made by both individuals and societies. Because philosophy aims at clarity at the level of language and thought it is applicable not only to the natural and social sciences, but also to the moral, practical and evaluative decisions we make on a daily basis.

COMPLETE THE FOLLOWING 4 REQUIRED COURSES:

PHILOS 009	Symbolic Logic I	3
PHILOS 012	History of Greek Philosophy	3
PHILOS 014	History of Modern European Philosophy	3
PHILOS 020	Ethics	3

COMPLETE 2 COURSES FROM THE FOLLOWING:

ECON 040	History of Economic Thought	(3)
PHILOS 001	Introduction to Philosophy	(3)
PHILOS 006	Logic in Practice	(3)
PHILOS 028	Environmental Ethics	(3)
PHILOS 030	Asian Philosophy	(3)
PHILOS 035#	Judaism, Christianity, and Islam	(3)
PHILOS 045	Philosophy of Labor	(3)

Total: 18

PHYSICAL EDUCATION

For the Associate in Arts in Kinesiology for Transfer Degree see page 50.

PHYSICAL EDUCATION (AA)

(Program Code 083500, State Code 02953)

Students earning the Physical Education AA Degrees have obtained skills for entry-level employment in the fitness industry.

COMPLETE THE FOLLOWING 2 REQUIRED COURSES:

BIOLOGY 003	Introduction to Biology	4
HEALTH 011	Principles of Healthful Living	3

COMPLETE 7 UNITS FROM THE FOLLOWING COURSES:

HEALTH 003	Cardiopulmonary Resuscitation	(1)
KIN MAJ 100	Introduction to Kinesiology	(3)
KIN MAJ 126	Fundamentals of Athletic Training	(3)
KIN MAJ 127	Advanced Athletic Training	(3)

COMPLETE 4 UNITS OF ACTIVITY FROM THE FOLLOWING COURSES:
KIN 008 - 391, KIN ATH 503 - 552

Total: 18

PHYSICS

For the Associate in Science in Physics for Transfer Degree see page 52.

PHYSICS (AS)

(Program Code 190200, State Code 02976)

Students will learn about the major topics in classical physics–mechanics, electricity and magnetism, thermodynamics and wave theory. They will also be introduced to topics in modern physics--quantum theory, atomic structure and relativity theory. Calculus will be used to solve problems in these areas. This degree partially meets the guidelines of the University of California Transfer Pathways for students wishing to complete a bachelor's degree in physics at a UC campus.

For transfer to a UC campus students must also complete the following general education requirements: (a) two college level courses in English composition (b) a total of four semester courses in two of the following areas: Arts and Humanities, Social and Behavioral Sciences, or Physical or Biological Sciences. It is also highly recommended that students complete Linear Algebra (Math 270) and Ordinary Differential Equations (Math 275).

COMPLETE THE FOLLOWING 8 REQUIRED COURSES:

CHEM 101*	General Chemistry I	5
CHEM 102*	General Chemistry II	5
MATH 261*	Calculus I	5
MATH 262*	Calculus II	5
MATH 263*	Calculus III	5
PHYSICS 037*	Physics for Engineers and Scientists I	5
PHYSICS 038*	Physics for Engineers and Scientists II	5
PHYSICS 039*	Physics for Engineers and Scientists III	5

Total: 40

POLITICAL SCIENCE

For the Associate in Arts in Political Science for Transfer Degree see page 52.

POLITICAL SCIENCE (AA)

(Program Code 220700, State Code 02987)

Political Science is the academic study of the state, government, and politics. The discipline deals with the theory and practice of politics, political systems, and political behavior. The Political Science AA degree helps prepare students for careers in fields such as law, education, journalism, and governmental service. This degree can serve as the basis for further undergraduate education in political science.

COMPLETE THE FOLLOWING 5 REQUIRED COURSES:

LAW 003	Civil Rights and the Law	3
POL SCI 001	The Government of the United States	3
POL SCI 002	Modern World Governments	3
POL SCI 005	The History of Western Political Thought	3
POL SCI 007	Contemporary World Affairs	3

COMPLETE 1 COURSE FROM THE FOLLOWING:

AFRO AM 004	The African Social History-of the United States I	(3)
HISTORY 012	Political and Social- History of the United States from 1865	(3)
HISTORY 020	History of California-and the Pacific Coast	(3)

Total: 18

*# Cross-referenced course. * This course has a prerequisite or corequisite.*

DEGREES AND CREDIT CERTIFICATES

PSYCHOLOGY

For the Associate in Arts in Psychology for Transfer Degree see page 52.

PSYCHOLOGY: SOCIAL AND PERSONALITY (AA)

(Program Code 200102, State Code 10767)

The Psychology AA degrees can serve as the basis for further undergraduate education in psychology. Psychology degrees provide a foundation for preparation in such diverse fields as social services, law, education, healthcare, government, and business. Two options are offered. The General option (AA-T in Psychology) provides a broad introduction to the field of psychology; the AA in Social and Personality option focuses on human interactions within a social context.

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:

PSYCH 001	General Psychology I	3
PSYCH 002*	Biological Psychology	3
PSYCH 003	Personality and Social Development	3
PSYCH 013*	Social Psychology	3
PSYCH 014*	Abnormal Psychology	3
STAT 101*	Statistics for the Social Sciences	4

COMPLETE 1 COURSE FROM THE FOLLOWING:

PSYCH 011*	Child Psychology	(3)
PSYCH 012*	Adolescent Psychology	(3)
PSYCH 041*	Life-Span Psychology: From Infancy to Old Age	(3)
PSYCH 052	Psychological Aspects of Human Sexuality	(3)

Total: 22

RELIGIOUS STUDIES
RELIGIOUS STUDIES (AA)

(Program Code 151000, State Code 38959)

The Associate of Arts in Religious Studies offers a coordinated set of classes that focuses on the analysis and comparison of religious traditions using methods from a variety of disciplines. Students take religious studies courses to fulfill general education requirements in humanities or social sciences, and can transfer to 4-year programs in related majors. With a bachelor's degree in religious studies, students pursue careers in law, business, public and political service, and education. A religious studies major also prepares students for graduate studies in the discipline and for professional seminary and divinity school.

COMPLETE THE FOLLOWING 3 REQUIRED COURSES:

PHILOS 031	Philosophy of Religion	3
PHILOS 035	Judaism, Christianity & Islam (or Jewish 35)	3
HISTORY 007	History of World Religions	3

COMPLETE 3 COURSES FROM THE FOLLOWING:

ANTHRO 121	Anthropology of Religion, Magic and Witchcraft	(3)
ENGLISH 252*	The English Bible as Literature	(3)
JEWISH 002	The Jewish Religious Heritage	(3)
JEWISH 011	Elementary Hebrew I	(5)
JEWISH 012*	Elementary Hebrew II	(5)
JEWISH 025	The History of the Jewish People	(3)
PHILOS 012	History of Greek Philosophy	(3)
PHILOS 030	Asian Philosophy	(3)

Total: 18-22

Cross-referenced course. * This course has a prerequisite or corequisite.

RESPIRATORY THERAPY
RESPIRATORY THERAPY (AS)
(Program Code 121000, State Code 02970)

RESPIRATORY THERAPY PROGRAM

The LAVC Respiratory Therapy Program (COARC # 200210) is accredited by the Commission on Accreditation for Respiratory Care. Respiratory Care Practitioners are licensed by the Respiratory Care Board of California under the Department of Consumer affairs.

CoARC
1248 Harwood Road
Bedford, TX 76021-4244
Website: www.coarc.com/
PROGRAM REQUIREMENTS

Program requirements are divided into two phases. Any student may enroll in Phase I, with scheduled counseling recommended. Formal application must be made for admission to Phase II. The requirements for the Respiratory Therapist Program also meet the AS Degree major requirements. Please see the Respiratory Therapy Director for specific equipment requirements that students must provide and the estimated cost of these.

REQUIREMENTS NECESSARY FOR ACCEPTANCE INTO PHASE II INCLUDE:

1. High school diploma or equivalent

2. Grade of C or better in all Phase I courses

3. Physical examination (Pass rating)

4. Formal application to the program

RESPIRATORY CARE PRACTITIONER LICENSE
Fulfillment of the Respiratory Therapist Program requirements can lead to California licensed practice as a respiratory care practitioner (RCP), working in such areas as:
• Adult Intensive Care
• Emergency and Trauma Care
• Pulmonary Rehabilitation and Home Care
• Neonatal and Pediatric Intensive Care
• Cardiopulmonary Function Testing

REQUIRED COURSES: (PHASE I)
Fall

RESP TH 002*	Fundamentals of Respiratory Therapy	4

The following Resp Th 2 corequisites must be completed before or during the Fall Semester:

PHYSICS 005*	Allied Health Physics	3
ANATOMY 001*	Introductory to Human Anatomy	4
CHEM 051	Fundamentals of Chemistry I	5
RESP TH 001	Introduction to Respiratory Therapy	1
PSYCH 001	General Psychology I	3
MICRO 020*	General Microbiology or a 4-unit General Microbiology Course	4
PHYSIOL 001*	Introduction to Human Physiology	4

REQUIRED COURSES: (PHASE II)
Spring

RESP TH 015*	Introduction to Clinical Experience	4
RESP TH 006*	Respiratory Physiology	4

Summer

RESP TH 003*	Applications of Respiratory Therapy & Clinical Experience I	5

Fall

RESP TH 004*	Applications of Respiratory Therapy & Clinical Experience II	5
RESP TH 007*	Applied Medicine and Pathology	3
RESP TH 00 8*	Administrative Procedures of Respiratory Therapy	1
RESP TH 023*	Advanced Respiratory Pathophysiology	1

Winter

RESP TH 005*	Applications of Respiratory Therapy & Clinical Experience III	5

Spring

RESP TH 011*	Applications of Respiratory Therapy & Clinical Experience IV	5

Total: 61

Respiratory Therapy course schedule effective Spring 2011.

ACCREDITATION
LAVC's Advanced Level Respiratory Therapy Program is accredited by the Commission on Accreditation of Respiratory Care (CoARC) Any questions or information about LAVC's RT program (CoARC #200210) or any other accredited RT schools please contact:
CoARC
1248 Harwood Road
Bedford, TX 76021-4244
Phone: 817-283-2835
Fax: 817-354-8519
Website: http://coarc.com/

CLINICAL AREA PERFORMANCE
Clinical area performance will be graded pass or fail as evaluated by the clinical instructors. Failure in the clinical area means failure in the course regardless of the grade in theory. Attendance at all scheduled classes is expected, and if absences from clinical laboratory in any one semester exceed four days, the student may be excluded from the Respiratory Therapist Program. The Health Science Department reserves the right to refuse a student continuation in the program if a grade of C or better is not maintained or if the student is unable to perform safely in the clinical area.

ASSOCIATE DEGREE
Certificates may be issued to students completing requirements in the Respiratory Therapist Program. Pursuant to California RCP license law, an Associate Degree will be required. Students obtaining an AS Degree in Respiratory Therapy must complete General Education Requirements - LACCD Plan, described on page 39 as well as the unit, scholastic, residence, and general competency requirements described on page 39. Previously attained higher than an AS degrees may be applicable. For further information regarding graduation requirements please contact (818) 947-2559. Foreign medical or Academic degrees are not recognized by the NBRC or California RCB.

ADDITIONAL PROGRAM REQUIREMENTS
National Credential Exams

Upon completion of an Associates of Science Degree in Respiratory Therapy the graduate will be eligible to take the National Board of Respiratory Care's (NBRC) exams in order to obtain an entry level Certified Respiratory Therapy (CRT) credential and an advanced level Registered Respiratory Therapist (RRT) credential. The NBRC has 2 exams. The first exam is the Therapist Multiple Choice exam (TMC). The TMC exam has an entry level CRT cut score and an advanced RRT cut score. Graduates must achieve the RRT cut score to be eligible to take the 2nd exam which is the Clinical simulation Exam (CSE). An RRT credential will be awarded upon passing the CSE exam. Effective January 1 2015 the California Respiratory Care Board will only issue licenses to applicants that have a RRT credential.

DEGREES AND CREDIT CERTIFICATES

For further information about national RT credentials & eligibility requirements contact the NBRC. For more information about state RT license requirements contact the California Respiratory Care Board.

NBRC EXECUTIVE OFFICE
10801 Mastin Street, Suite 300
Overland Park, KS 66210
Email: nbrc-info@nbrc.org
Toll-Free: 888.341.4811
Phone: 913.895.4900
Fax: 913.712.9283
Website: www.nbrc.org

RESPIRATORY CARE PRACTITIONER LICENSE
Upon completion of an accredited Respiratory Therapy program and an Associate of Science in Respiratory therapy the graduates apply for their California Respiratory Care Practitioner (RCP) through the Respiratory Care Board (RCB) of California. Graduates must pass the NBRC RRT passing rate for the TMC and Clinical Simulation exams (CSE) to obtain an RCP license in California..

RESPIRATORY CARE BOARD OF CALIFORNIA
444 North 3rd Street, Suite 270
Sacramento, CA 95811
Main Telephone: (916) 323-9983
Toll Free in California (866) 375-0386
Fax: (916) 323-9999
Website: www.rcb.ca.gov
E-mail: rcbinfo@dca.ca.gov

CRIMINAL BACKGROUND CHECK
Federal healthcare regulations (Joint Commission on Accreditation for Healthcare Organizations "JCAHO") and the Respiratory Care Board of California require criminal background checks on all license healthcare professionals and students.

LAVC RT PROGRAM APPLICATION PROCESS
Applications for the Phase II clinical training portion of the RT Program are accepted during the fall semester for students who have enrolled in or have completed RT 2. All Students must consult with a counselor to have all RT 2 prerequisites verified before enrolling in RT 2. Complete application process information is available at the counseling department, Allied health Science Department, and the LAVC RT web site: lavc.edu/restherapy

ADDITIONAL REQUIREMENTS FOR PHASE II STUDENTS:
Students must have a valid BLS CPR American Heart Association, criminal background check, malpractice insurance, (fire safety Card), LAVC Student ID, Social Security or Visa, drug screen, and a physical exam that includes TB testing, immunizations, and titers. (see Respiratory Therapy Program requirements under Educational Programs in LAVC catalog.)

CERTIFICATE REQUIREMENTS:
CERTIFICATE OF ACHIEVEMENT IN RESPIRATORY THERAPY
(Program Code 121000, State Code 21899)

While a certificate of achievement in RT issued by LAVC is recognition of completing all of the courses in the RT program it should be noted that this does not meet the requirements for the NBRC or the California Respiratory Care Board. The NBRC and the State California Respiratory Care Board **require an Associate's of Science Degree in Respiratory Care** in order to be eligible to take the national RRT Credential exams (TMC & CS) and to apply for a state Respiratory Care Practitioner License.

Please see description and course requirement of the Respiratory Therapy Program above.

SOCIOLOGY

For the Associate in Arts in Sociology for Transfer Degree see page 52.

The Sociology Program offers an Associate Degree for Transfer (AA-T) in Sociology and two options for an Associate's Degree (AA) in Sociology (General and Social Welfare). These degrees provide a strong foundation in the social sciences and build skills in the ability to communicate to different audiences, examine multiple sources of information and data, and more effectively work toward social justice. The AA-T in Sociology prepares students to transfer to a CSU with their lower division preparation work in Sociology completed and offers priority admission to CSUs in our service area. The AA in Sociology (Social Welfare) prepares students to work in social and human services. The AA in Sociology (General) can serve as a basis for employment in a diverse workforce or further undergraduate education in sociology.

SOCIOLOGY (AA)
(Program Code 220800, State Code 02988)

COMPLETE THE FOLLOWING 3 REQUIRED COURSES:

SOC 001	Introduction to Sociology	3
SOC 002	American Social Problems	3
SOC 012	Marriage and Family Life	3

COMPLETE 9-10 UNITS FROM THE FOLLOWING COURSES:

SOC 003	Crime and Delinquency	(3)
SOC 004*	Sociological Analysis	(3)
SOC 011	Race and Ethnic Relations	(3)
SOC 017	Introduction to Counseling	(3)
SOC 021	Human Sexuality	(3)
SOC 025	Drugs and Culture	(3)
SOC 031	Sociology of Gender	(3)
SOC 084	SIMSOC: Simulated Society	(1)
STAT 101*	Statistics for the Social Sciences	(4)

Total: 18-19

SOCIOLOGY: SOCIAL WELFARE (AA)
(Program Code 220801, State Code 10768)

COMPLETE THE FOLLOWING 4 REQUIRED COURSES:

SOC 001	Introduction to Sociology	3
SOC 017	Introduction to Counseling	3
SOC 019	Introduction to the Social Services	3
SOC 020	Directed Practice in Social Welfare	3

COMPLETE 6 UNITS FROM THE FOLLOWING COURSES:

SOC 002	American Social Problems	(3)
SOC 003	Crime and Delinquency	(3)
SOC 004	Sociological Analysis	(3)
SOC 011	Race and Ethnic Relations	(3)
SOC 012	Marriage and Family Life	(3)
SOC 021	Human Sexuality	(3)
SOC 025	Drugs and Culture	(3)
SOC 031	Sociology of Gender	(3)
SOC 084	SIMSOC: Simulated Society	(1)
STAT 101*	Statistics for the Social Sciences	(4)

Total: 18

*# Cross-referenced course. * This course has a prerequisite or corequisite.*

SPANISH

For the Associate in Arts in Spanish for Transfer Degree see page 53

SPANISH (AA)

(Program Code 110500, State Code 02967)

This degree provides solid foundation in the study of Spanish for those wishing to continue their education in languages. Students will be able to demonstrate effective skills in the four major areas of language study (reading, writing, speaking, listening comprehension), and demonstrate knowledge of the global society, and the role of Spanish-speaking nations and of the Spanish language and Hispanic cultures in the contemporary world.

COMPLETE 3 COURSES FROM THE FOLLOWING:

SPANISH 001	Elementary Spanish I	(5)
SPANISH 002*	Elementary Spanish II	(5)
SPANISH 003*	Intermediate Spanish I	(5)
SPANISH 004*	Intermediate Spanish II	(5)
SPANISH 005*	Advanced Spanish Through Latin American Literature	(5)
SPANISH 006*	Advanced Spanish Through Spanish Literature	(5)
SPANISH 035	Spanish for Spanish Speakers I	(5)
SPANISH 036*	Spanish for Spanish Speakers II	(5)
SPANISH 037*	Composition & Conversation- for Spanish Speakers	(5)

COMPLETE 3-5 UNITS FROM THE FOLLOWING:

LING 001	Introduction to Language- and Linguistics	(3)
SPANISH 008*	Conversational Spanish	(2)
SPANISH 009	Hispanic Civilization	(3)
SPANISH 012#	Contemporary Mexican Literature	(3)
SPANISH 016#	Mexican Civilization	(3)
SPANISH 025	Spanish American Short- Story in Translation	(3)
SPANISH 048	Introduction to Spanish Translation I	(3)

Total: 18-20

CERTIFICATE REQUIREMENTS:
SKILLS CERTIFICATE IN SPANISH LANGUAGE

(Program Code 110501)

The Spanish Language Skills Certificate certifies that a student possesses the oral fluency of a Spanish native speaker, as well as the written and cultural skills necessary to effectively communicate in Spanish in the workplace, with the public, with community and government agencies, or in a professional environment in general without having to complete an AA degree in Spanish. The certificate requires a minimum of 13 units and students must pass the written and oral exams given at the end of Spanish 37 with a C or better.

COMPLETE THE FOLLOWING 2 REQUIRED COURSES:

SPANISH 036*	Spanish for Spanish Speakers II	(5)
SPANISH 037*	Composition and Conversation for Spanish Speakers	(5)

COMPLETE 1 COURSE FROM THE FOLLOWING:

SPANISH 005*	Advanced Spanish Through Latin American Literature	(5)
SPANISH 027*	Cultural Awareness through Advanced Conversation	(3)
SPANISH 048*	Introduction to Basic Translation	(3)

Total: 13-15

THEATER ARTS

For the Associate in Arts in Theatre Arts for Transfer Degree see page 53.

Students earning the Theater Arts AA Degrees with an option in Acting, Directing, and Technical have obtained skills for entry-level employment in theater or for career advancement.

THEATER ARTS (AA)

(Program Code 100700, State Code 02963)

This degree can serve as a basis for further undergraduate education in theater arts.

COMPLETE THE FOLLOWING 3 REQUIRED COURSES:

THEATER 100	Introduction to the Theater	3
THEATER 270	Beginning Acting	3
THEATER 301	Stage Craft	3

COMPLETE 1 COURSE FROM THE FOLLOWING:

THEATER 110	History of the World Theater	(3)
THEATER 112	History of World Theater II	(3)

COMPLETE 1 COURSE FROM THE FOLLOWING:

THEATER 232**	Play Production II	(2)
THEATER 233**	Play Production III	(3)
THEATER 291**	Rehearsals and Performances I	(1)
THEATER 292**	Rehearsals and Performances II	(2)
THEATER 293**	Rehearsals and Performances III	(3)

COMPLETE 3-5 UNITS FROM THE FOLLOWING COURSES:

THEATER 110	History of the World Theater	(3)
THEATER 112	History of World Theater II	(3)
THEATER 185	Directed Study - Theater	(1)
THEATER 225	Beginning Direction	(3)
THEATER 240	Voice and Articulation for the Theater	(3)
THEATER 272*	Intermediate Applied Acting	(3)
THEATER 275	Scene Study	(2)
THEATER 317	Color and Design for the Theater	(3)
THEATER 325*	Advanced Stage Craft	(3)
THEATER 450	Beginning Stage Make-Up	(3)

** Audition and/or interview required.

Total: 18-20

Theater Arts, *Continued next page*

Cross-referenced course. * This course has a prerequisite or corequisite.

DEGREES AND CREDIT CERTIFICATES

THEATER ARTS: ACTING (AA)

(Program Code 100701, State Code 10760)

COMPLETE THE FOLLOWING 8 REQUIRED COURSES:

THEATER 110	History of the World Theater	3
THEATER 112	History of World Theater II	3
THEATER 240	Voice and Articulation for the Theater	3
THEATER 270	Beginning Acting	3
THEATER 272*	Intermediate Applied Acting	3
THEATER 274*	Advanced Applied Acting	3
THEATER 301	Stage Craft	3
THEATER 450	Beginning Stage Make-up	3

COMPLETE 1 COURSE FROM THE FOLLOWING:

THEATER 100	Introduction to the Theater	(3)

COMPLETE 9 UNITS FROM THE FOLLOWING COURSES:

THEATER 232**	Play Production II	(2)
THEATER 233**	Play Production III	(3)
THEATER 291**	Rehearsals and Performances I	(1)
THEATER 292**	Rehearsals and Performances II	(2)
THEATER 293**	Rehearsals and Performances III	(3)
THEATER 185**	Directed Study - Theater	(1)
THEATER 285**	Directed Study - Theater	(2)
THEATER 385**	Directed Study - Theater	(3)

** Audition and/or interview required.

Total: 36

THEATER ARTS: DIRECTING (AA)

(Program Code 100703, State Code 08550)

COMPLETE THE FOLLOWING 8 REQUIRED COURSES:

THEATER 110	History of the World Theater I	3
THEATER 112	History of the World Theater II	3
THEATER 225	Beginning Direction	3
THEATER 227*	Advanced Direction	3
THEATER 270	Beginning Acting	3
THEATER 301	Stage Craft	3
THEATER 310	Introduction to Theatrical Lighting	3
THEATER 325*	Advanced Stage Craft	3

COMPLETE 1 COURSE FROM THE FOLLOWING:

THEATER 100	Introduction to the Theater	(3)

COMPLETE 1 COURSE FROM THE FOLLOWING:

THEATER 232**	Play Production II	(2)
THEATER 233**	Play Production III	(3)
THEATER 291**	Rehearsals and Performances I	(1)
THEATER 292**	Rehearsals and Performances II	(2)
THEATER 293**	Rehearsals and Performances III	(3)

COMPLETE 6-8 UNITS FROM THE FOLLOWING COURSES:

ART 102	Survey of Art History II	(3)
THEATER 232**	Play Production II	(2)
THEATER 233**	Play Production III	(3)
THEATER 272*	Intermediate Applied Acting	(3)
THEATER 275	Scene Study	(2)
THEATER 291	Rehearsals and Performances I	(1)
THEATER 292	Rehearsals and Performances II	(2)
THEATER 293	Rehearsals and Performances III	(3)
THEATER 315	Introduction to Theatrical Scenic Design	(3)
THEATER 317	Color and Design for the Theater	(3)
THEATER 450	Beginning Stage Make-up	(3)
THEATER 185	Directed Study - Theater	(1)
THEATER 285	Directed Study - Theater	(2)
THEATER 385	Directed Study - Theater	(3)

** Audition and/or interview required.

Total: 34-38

THEATER ARTS: TECHNICAL (AA)

(Program Code 100600, State Code 08548)

COMPLETE THE FOLLOWING 9 REQUIRED COURSES:

THEATER 100	Introduction to the Theater	3
THEATER 110	History of the World Theater	3
THEATER 112	History of World Theater II	3
THEATER 270	Beginning Acting	3
THEATER 301	Stage Craft	3
THEATER 310	Introduction to Theatrical Lighting	3
THEATER 315	Introduction to Theatrical Scenic Design	3
THEATER 317	Color and Design for Theater	3
THEATER 325*	Advanced Stage Craft	3

COMPLETE 1 COURSE FROM THE FOLLOWING:

THEATER 232**	Play Production II	(2)
THEATER 233**	Play Production III	(3)
THEATER 291**	Rehearsals and Performances I	(1)
THEATER 292**	Rehearsals and Performances II	(2)
THEATER 293**	Rehearsals and Performances III	(3)

COMPLETE 6-8 UNITS FROM THE FOLLOWING COURSES:

ART 101	Survey of Art History I	(3)
ART 102	Survey of Art History II	(3)
THEATER 225	Beginning Direction	(3)
THEATER 232**	Play Production I	(2)
THEATER 233**	Play Production II	(3)
THEATER 291**	Rehearsals and Performances I	(1)
THEATER 292**	Rehearsals and Performances II	(2)
THEATER 293**	Rehearsals and Performances III	(3)
THEATER 405	Costume Design	(3)
THEATER 450	Beginning Stage Make-up	(3)
THEATER 451*	Advanced Stage Make-up	(3)
THEATER 185	Directed Study - Theater	(1)
THEATER 285	Directed Study - Theater	(2)
THEATER 385	Directed Study - Theater	(3)

** Audition and/or interview required.

Total: 36-38

Theater Arts, *Continued next page*

*# Cross-referenced course. * This course has a prerequisite or corequisite.*

CERTIFICATE REQUIREMENTS:
SKILLS CERTIFICATE IN MUSICAL THEATER

(Program Code 100704)

This certificate program is designed to channel the student who wishes to emphasize performance in the musical theater. Completion of the certificate will enable a student to more effectively audition and seek professional acting, singing and dancing jobs in the specialized area of musical theater stage performance.

Estimated time to complete: 1.5 years.

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:
DANCETQ 111	Ballet Techniques I	1
DANCETQ 151	Dance for Film and Stage I	1
MUSIC 411	Elementary Voice I	2
THEATER 270	Beginning Acting	3
THEATER 272*	Intermediate Applied Acting	3
THEATER 279	Musical Theater	2

COMPLETE 1 COURSE FROM THE FOLLOWING:
THEATER 280**	Musical Theater Workshop I	(3)
THEATER 281	Musical Theater Workshop II	(3)

COMPLETE 1 COURSE FROM THE FOLLOWING:
DANCETQ 112*	Ballet Techniques II	(1)
DANCETQ 121	Jazz Dance Techniques I	(1)
DNCESPC 331	Tap Dance Techniques I	(1)
MUSIC 412*	Elementary Voice II	(2)
MUSIC 453*	Musical Theater Repertoire	(1)
THEATER 282*	Advanced Musical Theater	(2)

** Audition and/or interview required.

Total: 16-17

CERTIFICATE OF ACHIEVEMENT IN THEATER PRODUCTION

(Program Code 100702, State Code 08551)

Students earning this certificate have obtained skills for entry-level employment in the theater.

Estimated time to complete: 2 years.

COMPLETE THE FOLLOWING 6 REQUIRED COURSES:
THEATER 110	History of the World Theater	3
THEATER 225	Beginning Direction	3
THEATER 270	Beginning Acting	3
THEATER 301	Stage Craft	3
THEATER 310	Introduction to Theatrical Lighting	3
THEATER 315	Introduction to Theatrical Scenic Design	3

COMPLETE 1 COURSE FROM THE FOLLOWING:
THEATER 232**	Play Production II	(2)
THEATER 233**	Play Production III	(3)
THEATER 291**	Rehearsals and Performances I	(1)
THEATER 292**	Rehearsals and Performances II	(2)
THEATER 293**	Rehearsals and Performances III	(3)

COMPLETE 2 COURSES FROM THE FOLLOWING:
Art 501	Beginning Two-Dimensional Design	(3)
EGT 213*	Introduction to AutoCAD	(3)
THEATER 227*	Advanced Direction	(3)
THEATER 317	Color and Design for the Theater	(3)
THEATER 325*	Advanced Stage Craft	(3)
THEATER 450	Beginning Stage Make-Up	(3)

** Audition and/or interview required.

Total: 24-27

SKILLS CERTIFICATE IN THEATRICAL PERFORMANCE

(Program Code 100601)

This certificate program is designed to channel the student's training to emphasize the performance aspect of theater through the use of scripted material and improvisational techniques. Completion of the certificate will enable a student to more effectively audition and seek professional acting jobs in both the stage and film industries.

Estimated time to complete: 1 year.

COMPLETE THE FOLLOWING 3 REQUIRED COURSES:
THEATER 270	Beginning Acting	3
THEATER 272*	Intermediate Applied Acting	3
THEATER 274*	Advanced Applied Acting	3

COMPLETE 1 COURSE FROM THE FOLLOWING:
THEATER 240	Voice and Articulation for the Theater	(3)
THEATER 275	Scene Study	(2)
THEATER 279	Musical Theater	(3)

COMPLETE 3 UNITS FROM THE FOLLOWING COURSES:
THEATER 232**	Play Production II	(2)
THEATER 233**	Play Production III	(3)
THEATER 280**	Musical Theater Workshop I	(3)
THEATER 291**	Rehearsals and Performances I	(1)
THEATER 292**	Rehearsals and Performances II	(2)
THEATER 293**	Rehearsals and Performances III	(3)

** Audition and/or interview required.

Total: 14-15

Cross-referenced course. * This course has a prerequisite or corequisite.