

CHAPTER 4: DEGREES AND CERTIFICATES

Degrees and Certificates 2016-2017	Associate Degree for Transfer (AA-T or AS-T)	Associate in Arts	Associate in Science	Certificate of (Achievement or *Specialization)
Accounting			x	Achievement
Administration of Justice	AS-T	x	x	
Art – Design Emphasis			x	
Art – Studio Practice 2-D			x	
Advanced Automotive Training				Achievement
American Honda				Achievement
Automotive Technology Basic Skills Entry Level Employment				Achievement
Auto - Drivetrain and Chassis			x	Achievement
Auto - Electrical-Engine Performance			x	Achievement
Automotive Technology Smog Specialist				Achievement
Biology		x		
Building Information Modeling (BIM)				Achievement
Business Administration	AS-T			
BIS – General Business			x	Achievement
BIS – Business Information Specialist			x	Achievement
Chemistry		x		
Communication Studies	AA-T			
Computer Aided Drafting and Design (CADD)			x	
CADD-AutoDesk				*Specialization
CADD-Mechanical Modeling				*Specialization
CADD-Digital Prototyping				*Specialization
CADD-Architectural CADD				*Specialization
CADD-3D CADD				*Specialization
Dance				*Specialization
Engineering		x	x	
English	AA-T	x		
Entrepreneurship				Achievement
General Studies with emphasis in Astronomy		x		
General Studies with emphasis in Health Science		x		
General Studies with emphasis in Mathematics for Secondary School Teaching		x		
General Studies with emphasis in Natural Science		x		
General Studies with emphasis in Sociology		x		
General Studies with emphasis in Women's Studies		x		
History	AA-T			
Liberal Studies with emphasis in Elementary Teacher Preparation		x		
Mathematics	AS-T			
Medical Assistant-Front Office				Achievement
Nursing			x	
Paralegal Studies		x	x	Achievement
Patient Community Navigator				*Specialization
Physics	AS-T			
Psychology	AA-T	x		
Surveying and Geomatics		x	x	Achievement
Translation and Interpretation				Achievement

*Certificates of Specialization are not state approved and will not appear on a transcript.

ACCOUNTING – ASSOCIATE IN SCIENCE

This curriculum provides training for entry-level accounting positions including general accounting clerks, bookkeepers, and similar workers in banks and business firms. Graduates from this program are qualified to meet the demands of offices requiring technical skills in general accounting and computerized bookkeeping. A grade of ‘C’ or better in each major course is required to graduate.

Program Learning Outcomes for Accounting Associate in Science Degree and Certificate of Achievement:

- Prepare and record accounting entries in accordance with generally accepted accounting principles using both manual and computerized accounting systems.
- Apply knowledge of payroll and tax accounting to identify and record economic events.
- Create and analyze financial statements, and communicate results to end users.

Core Requirements

ACCTG 001A	Financial Accounting	4.0
ACCTG 001B	Managerial Accounting	4.0
ACCTG 030	QuickBooks	3.0
ACCTG 062	Cost Accounting	5.0
ACCTG 063	Intermediate Accounting	5.0
ACCTG 097	Accounting for Income Taxes	3.0
BIS 102	Microsoft Excel	3.0
BUS 071	Legal Environment of Business	3.0

Core Requirements	30.0
Electives (<i>Any AA/AS applicable course</i>)	6.0
General Education Requirements	<u>24.0</u>
Total Units	60.0

ACCOUNTING – CERTIFICATE OF ACHIEVEMENT

Complete the following with ‘C’ or better

ACCTG 101	Bookkeeping for Small Business	3.0
ACCTG 022	Payroll Accounting	4.0
ACCTG 030	QuickBooks	3.0
ACCTG 095	Individual Income Tax CTEC	5.0
BIS 102	Microsoft Excel	3.0
BIS 007	Business Writing Skills	3.0
Total Units		21.0

ADMINISTRATION OF JUSTICE

The Administration of Justice program offers an Associate Degree intended to academically prepare students for the skills necessary to work in the criminal justice field, in both public and private sectors. The program focuses on development of essential program dimensions of: effective communication, critical inquiry, information literacy, social and cultural awareness, and ethical intelligence. The Administration of Justice degree will benefit students who desire to enter the workforce, continue with career technical training, or transfer to a four year institution to continue academic pursuits. Students must complete each major course and major elective course with a grade of ‘C’ or better to be awarded the degree. At least 6 units in the major must be earned at EVC.

Program Learning Outcomes for Administration of Justice of Associate in Science in Transfer, Associate in Arts and Associate in Science Degrees:

- Demonstrate effective written and oral communication necessary in the criminal justice field.
- Interpret and analyze information, concepts, and theories of the criminal justice system from multiple perspectives.
- Apply and integrate terminology, concepts, and practices of law enforcement, the courts, and corrections.
- Recognize the value of a multicultural society and the importance of social justice within the community both personally and within the criminal justice field.
- Analyze and consider personal decisions and ideas related to the criminal justice system that are based on civility, civic responsibility, and public perception.

ADMINISTRATION OF JUSTICE – ASSOCIATE IN ARTS

Core Requirements

AJ 010	Introduction to Administration of Justice	3.0
AJ 011	Criminal Law	3.0
AJ 013	Criminal Procedures	3.0
AJ 014	Contemporary Police Issues	3.0
AJ 015	Introduction to Criminal Investigation	3.0

Major Electives (choose from the following): 5.0

AJ 019, 110, 111, 112, 113, 114, 115, 116, 117, 123, PHIL 060, 065, PSYCH 020, 026, SOC 010, 011, BIOL 025, MATH 063, BIS 039, Foreign Language (including sign language and conversational) OR LE 160, LE 161, and LE 162 OR LE 154

Core Requirements	15.0
Major Electives	5.0
General Education Requirements	39.0
Physical Activity (<i>graduation requirement</i>)	1.0
Total Units	60.0

ADMINISTRATION OF JUSTICE – ASSOCIATE IN SCIENCE

Core Requirements

AJ 010	Introduction to Administration of Justice	3.0
AJ 011	Criminal Law	3.0
AJ 013	Criminal Procedures	3.0
AJ 014	Contemporary Police Issues	3.0
AJ 015	Introduction to Criminal Investigation	3.0

Major Electives (choose from the following): 20.0

AJ 019, 110, 111, 112, 113, 114, 115, 116, 117, 123, PHIL 060, 065, PSYCH 020, 026, SOC 010, 011, BIOL 025, MATH 063, BIS 039, Foreign Language (including sign language and conversational) OR LE 160, LE 161, and LE 162 OR LE 154

Core Requirements	15.0
Major Electives	20.0
G.E. Requirements	24.0
Physical Activity	1.0
Total Units	60.0

ADMINISTRATION OF JUSTICE – ASSOCIATE IN SCIENCE FOR TRANSFER

The Administration of Justice program offers an Associate of Arts Degree to prepare students for the skills necessary to work in the criminal justice field, in both public and private sectors. The Administration of Justice degree is ideally suited for students who desire to transfer to a four year institution to continue academic endeavors or to enter the workforce. The Administration of Justice program combines both academic and practitioner perspectives to the study of crime in a global society. The Associate in Science in Administration of Justice for Transfer is designed to prepare students for fields related to law enforcement, corrections, courts, social service, and the private sector. Students who successfully complete the program will be eligible to transfer to the California State University system to continue study in Administration of Justice, Corrections including Probation and Parole, Social Services, or Legal-Pre Law Studies.

Students who complete the AS-T in Administration of Justice must have the following:

- Completion of 60 CSU transferrable semester units
- A minimum of at least 2.0 GPA in CSU transferrable courses (note that a higher GPA may be required in some institutions)
- Completion of at least 18 units in the major with a grade of “C” or better
- Certified completion of the CSU General Education-Breadth (CSU GE-Breadth) requirements, or completion of the Intersegmental General Education Transfer Curriculum (IGETC) requirements

Please Note: No more than 60 semester units are required for this degree and no additional requirements will be imposed by Evergreen Valley College.

Core Requirements:

AJ 010	Introduction to Administration of Justice	3.0
AJ 011	Criminal Law	3.0

List A: Select any TWO of the following courses 6.0

AJ 013	Criminal Procedures	
AJ 015	Introduction to Criminal Investigation	
AJ 014	Contemporary Police Issues	
AJ 111	Juvenile Law and Procedures	
AJ 112	Introduction to Evidence	
AJ 115	Introduction to Forensic Science	
AJ 116	Introduction to Corrections	

List B: Select any TWO of the following courses 6.0

SOC 010	Introduction to Sociology	
PSYCH 001	General Psychology	
MATH 063	Elementary Statistics	

Major Requirements (<i>Core, List A, List B</i>):	18.0
CSU GE-B or IGETC for CSU	33.0-39.0
Transferable Electives (<i>to reach 60 units</i>)	<u>3.0-9.0</u>
Total Units	60.0

ART: DESIGN EMPHASIS – ASSOCIATE IN SCIENCE

This degree reflects serious, sustained study and achievement in foundational concepts of two-dimensional arts and graphic design. Hands-on studio practice, digital media skills and art history courses are required to fully engage students in the language of the visual arts and to introduce students to various theoretical approaches of art and design. Students must complete each major course and major elective course with a grade of ‘C’ or better to be awarded the degree.

Program Learning Outcomes:

- Describe and analyze works of art and design using vocabulary specific to the visual arts.
- Demonstrate technical proficiency in handling various art and design materials, such as cutting tools, pasting options, duplicating processes, various drawing and painting media, digital media software, presentation materials and the health and safety standards related to these materials.
- Demonstrate technical skills in drawing, including drawing naturalistically from the observed world, drawing from the imagination, and applying systems of linear perspective.
- Demonstrate a working knowledge of the elements and principles of art and design and the dynamics of composition.
- Formulate works of art and design culling from various visual resources.
- Compose works of art and design using computer software programs.
- Demonstrate proficiency in critical thinking, problems solving, group interaction, and self-discipline to create works of art and design.
- Analyze how form affects content in works of art and implement design changes to strengthen this relationship.
- Evaluate their work and the work of others in terms of how art and design are a reflection of what we value, personally, socially and culturally.

Core Requirements

ART 012	Two-Dimensional Design	3.0
ART 013	Three-Dimensional Design	3.0
ART 014	Color Theory	3.0
ART 024	Beginning Drawing	3.0
ART 035	Graphic Design I	3.0
ART 039	Introduction to Digital Video	3.0
ART 055A	Life Drawing I	3.0
ART 060	Beginning Painting I	3.0
ART 076A	Art and Design Portfolio Preparation	3.0
ART 091	Survey of Art History: Prehistoric through Gothic	3.0
ART 092	Survey of Art History: Renaissance to Present	3.0

Major Electives: Choose 6 units from the following: 6.0

ART 025	Expressive Drawing	
ART 026A	Representational Drawing	
ART 041	Digital Filmmaking: Camera Techniques, Lighting and Sound	
ART 055B	Life Drawing II	
ART 061	Beginning Painting II	

Core Requirements	33.0
Major Electives	6.0
General Education Requirements	<u>21.0</u>
Total Units	60.0

ART: STUDIO PRACTICE 2-D – ASSOCIATE IN SCIENCE

The Art and Design program offers an Associate in Science Degree. If the student desires to transfer, he/she may seek a Bachelor's degree in Art, Art and Design, or Fine Arts. The Associate degree program at Evergreen Valley College offers lower division course work for students transferring into four-year programs in Design, General Studio Practice, History or Art Education. Students must complete each major course and major elective course with a grade of 'C' or better to be awarded the degree.

Program Learning Outcomes:

- Describe and analyze works of art and design using vocabulary specific to the visual arts.
- Demonstrate technical proficiency in handling various art and design materials, such as cutting tools, pasting options, duplicating processes, various drawing and painting media, presentation materials and the health and safety standards related to these materials.
- Demonstrate technical skills in drawing, including drawing naturalistically from the observed world, drawing from the imagination, and applying systems of linear perspective.
- Demonstrate a working knowledge of the elements and principles of art and design and the dynamics of composition.
- Formulate works of art and design culling from various visual resources.
- Demonstrate proficiency in critical thinking, problems solving, group interaction, and self-discipline to create works of art and design.
- Analyze how form affects content in works of art and implement design changes to their own work to strengthen this relationship.
- Evaluate their work and the work of others in terms of how art and design are a reflection of what we value, personally, socially and culturally.

Core Requirements

ART 012	Two-Dimensional Design	3.0
ART 013	Three-Dimensional Design	3.0
ART 014	Color Theory	3.0
ART 024	Beginning Drawing	3.0
ART 025	Expressive Drawing	3.0
ART 026A	Representational Drawing	3.0
ART 055A	Life Drawing I	3.0
ART 060	Beginning Painting I	3.0
ART 061	Beginning Painting II	3.0
ART 076A	Art and Design Portfolio Preparation	3.0
ART 091	Survey of Art History: Prehistoric through Gothic	3.0
ART 092	Survey of Art History: Renaissance to Present	3.0

Major Electives – Choose 6 units from the following: 6.0

ART 035	Graphic Design I
ART 039	Introduction to Digital Video
ART 042	Beginning Sculpture I
ART 055B	Life Drawing II
PHOTO 022	Beginning Photography

Core Requirements	36.0
Major Electives	6.0
General Education Requirements	<u>21.0</u>
Total Units	63.0

ADVANCED AUTOMOTIVE TRAINING – CERTIFICATE OF ACHIEVEMENT

This certificate certifies successful completion of all Basic Skills, Chassis and Drivetrain, and Electrical/Engine Performance coursework. Meets and/or exceeds CA State Automotive Apprenticeship training requirements. Students must complete each course with a grade of 'C' or better to be awarded the Certificate in Automotive Technology.

Program Learning Outcomes:

- Demonstrate knowledge of theory, operation, fault validation, appropriate choice and execution of diagnostic methods, safe and environmentally sensitive practices, and efficient work habits of the following systems in production environment.
- Validate service and/or repair success, ensure customer satisfaction, document service/repair information: Electrical Systems, Engine Performance, Vehicle Maintenance, Engine Service, Brake and Steering/Suspension Systems, Powertrain Systems, Climate Control, and Emission Control Systems.

AUTO 102	Automotive Systems	3.5
AUTO 103	Light Line Technician	2.0
AUTO 105	Suspension, Steering, and Alignment	3.0
AUTO 106	Automotive Brake Systems	2.0
AUTO 107	Valve Train	2.0
AUTO 118	Fuel Systems/Emission Controls	3.0
AUTO 119	Introduction to Engine Performance	2.5
AUTO 120	Automatic Transmission Systems	2.5
AUTO 121	Manual Transmission and Drivetrain Systems	2.0
AUTO 122	Advanced Electrical Systems	3.0
AUTO 125	Automotive Electronics	2.0
AUTO 127	Ignition Systems	3.0
AUTO 129	DSO, GDMM, Scan Tool Diagnosis	1.5
AUTO 133	Computerized Engine Management	2.5
AUTO 135	Air Conditioning Systems	2.0
AUTO 138	Work Experience	1.0
AUTO 141*	Clean Air Car Course	5.0
AUTO 170	Electrical Systems	3.0
AUTO 171	Engine Systems	2.5
AUTO 172	Chassis and Drivetrain Systems	2.5
AUTO 173	Automotive Service Operations	2.0
AUTO 174	Body & Chassis Electronics	2.0
AUTO 181A	Introduction to Alternative Fuel and Hybrid/Electric Vehicles	2.0
AUTO 181B	Hybrid Electric Vehicle Maintenance And Repair	3.0
AUTO 202	Bugged Vehicle Diagnosis	1.5
Total Units		61.0

*California Apprenticeship requires a grade of "B" or better (for this course)

AMERICAN HONDA – CERTIFICATE OF ACHIEVEMENT

This certificate certifies successful completion of American Honda/EVC training for employment preparation. Students must complete each course with a grade of 'C' or better to be awarded the Certificate in Automotive Technology.

Note: In order for participating students to receive this certificate, American Honda requires that all program requirements be met. Please contact David Ames at (408) 274-7900 ext. 6555 for further information.

Program Learning Outcomes:

- Demonstrate knowledge of theory, operation, fault validation, appropriate choice and execution of diagnostic methods, safe and environmentally sensitive practices, and efficient work habits of the following systems in production environment.

AUTO 102	Automotive Systems	3.5
AUTO 103	Light Line Technician	2.0
AUTO 105	Suspension, Steering, and Alignment	3.0
AUTO 106	Automotive Brake Systems	2.0
AUTO 107	Valve Train	2.0
AUTO 108	Engine Short Block	2.0
AUTO 118	Fuel Systems/Emission Controls	3.0
AUTO 119	Introduction to Engine Performance	2.5
AUTO 120	Automatic Transmission Systems	2.5
AUTO 121	Manual Transmission and Drivetrain Systems	2.0
AUTO 122	Advanced Electrical Systems	3.0
AUTO 125	Automotive Electronics	2.0
AUTO 127	Ignition Systems	3.0
AUTO 129	DSO, GDM, Scan Tool Diagnosis	1.5
AUTO 132	Individualized Skills Training Lab	1.5
AUTO 133	Computerized Engine Management	2.5
AUTO 135	Air Conditioning Systems	2.0
AUTO 141*	Clean Air Car Course	5.0
AUTO 170	Electrical Systems	3.0
AUTO 171	Engine Systems	2.5
AUTO 172	Chassis and Drivetrain Systems	2.5
AUTO 173	Automotive Service Operations	2.0
AUTO 174	Body & Chassis Electronics	2.0
AUTO 202	Bugged Vehicle Diagnosis	1.5
Total Units		58.5

AUTOMOTIVE TECHNOLOGY, BASIC SKILLS ENTRY LEVEL EMPLOYMENT—CERTIFICATE OF ACHIEVEMENT

The Automotive Certificate of Achievement is designed to prepare students for entry level employment in the automotive field as a light line technician. The courses in this certificate program will introduce students to the tools and equipment used for repair and diagnostic work, as well as to demonstrate how procedures for troubleshooting electrical and mechanical problems should be carried out. Students will also study the relationships of the Auto industry and the opportunities it presents.

Program Learning Outcomes:

- Enhance student career opportunities by providing current, marketable skills.
- Provide students with a program that will help them stay current with ever evolving changes in the industry.
- Challenge students to maintain current training in a changing skill area.
- To gain entry level employment as a light line technician
- Introduce students to the tools and equipment used for repair and diagnostic work

AUTO 102	Automotive Systems	3.5
AUTO 103	Light Line Technician	2.0
AUTO 119	Introduction to Engine Performance	2.5
AUTO 171	Engine Systems	2.5
AUTO 173	Automotive Service Operations	2.0
Total Units		12.5

DRIVETRAIN & CHASSIS – ASSOCIATE IN SCIENCE

This course of study provides significant training and applicable skills development for future employment as automotive service technicians. Topics include: brakes, transmission, drivetrain, air conditioning, suspension, steering, and body chassis electrical systems. Students will acquire and demonstrate skills using classroom, lab, and on-line vehicle diagnostic/repair simulations using specialized test equipment and service literature that is consistent with industry practices. Students will also execute safe, proper, and ethical work practices.

Program Learning Outcomes for Drivetrain & Chassis Associate in Science degree and Certificate of Achievement:

- Demonstrate a global understanding of various automotive systems and the ability to discern complaint, cause, and correction of complex and interrelated symptoms.
- Demonstrate the ability to diagnose, inspect, measure, and repair transmission, drivetrain, AC, brake and suspension systems in a competent and professional manner.
- Apply basic electrical principles to the repair of Chassis and Drivetrain systems.
- Execute safe, proper, and ethical work practices.

Core Requirements

AUTO 102	Automotive Systems	3.5
AUTO 103	Light Line Technician	2.0
AUTO 105	Suspension, Steering, and Alignment	3.0
AUTO 106	Automotive Brake Systems	2.0
AUTO 119	Introduction to Engine Performance	2.5
AUTO 120	Automatic Transmission Systems	2.5
AUTO 121	Manual Transmission and Drivetrain Systems	2.0
AUTO 135	Air Conditioning systems	2.0
AUTO 170	Electrical Systems	3.0
AUTO 171	Engine Systems	2.5
AUTO 172	Chassis and Drivetrain Systems	2.5
AUTO 173	Automotive Service Operations	2.0
AUTO 174	Body & Chassis Electronics	2.0

Core Requirements	31.5
Major Electives (<i>any auto course not listed above</i>)	5.0
General Education Requirements	24.0
Total Units	60.5



DRIVETRAIN & CHASSIS – CERTIFICATE OF ACHIEVEMENT

This course of study provides significant training and applicable skills development for future employment as automotive service technicians. Topics include: brakes, transmission, drivetrain, air conditioning, suspension, steering, and body chassis electrical systems. Students will acquire and demonstrate skills using classroom, lab, and on-line vehicle diagnostic/repair simulations using specialized test equipment and service literature that is consistent with industry practices. Students will also execute safe, proper, and ethical work practices. Students must complete each course with a grade of “C” or better.

AUTO 102	Automotive Systems	3.5
AUTO 103	Light Line Technician	2.0
AUTO 105	Suspension, Steering, and Alignment	3.0
AUTO 106	Automotive Brake Systems	2.0
AUTO 119	Introduction to Engine Performance	2.5
AUTO 120	Automatic Transmission Systems	2.5
AUTO 121	Manual Transmission and Drivetrain Systems	2.0
AUTO 135	Air Conditioning Systems	2.0
AUTO 170	Electrical Systems	3.0
AUTO 171	Engine Systems	2.5
AUTO 172	Chassis and Drivetrain Systems	2.5
AUTO 173	Automotive Service Operations	2.0
AUTO 174	Body & Chassis Electronics	2.0
Total Units		31.5

ELECTRICAL-ENGINE PERFORMANCE – ASSOCIATE IN SCIENCE

This program provides state of the art training and applicable employment skills in the following ASE certification topics: Electrical, Engine Performance, and Advanced Engine Performance. Also provides training and preparation for CA state emissions inspection license. Students must complete each course with a grade of ‘C’ or better to be awarded the Certificate in Automotive Technology.

Program Learning Outcomes for Electrical-Engine Performance Associate in Science Degree and Certificate of Achievement:

- Recognize, diagnose, and repair faults in the following systems: Starting, charging, lighting, instrumentation, climate control, safety, navigation, communication, fuel, ignition, valvetrain, throttle, emissions, powertrain, and stability.
- Demonstrate skills using online vehicle diagnostic/repair information and specialized test equipment that is consistent with industry standards.
- Execute safe, proper, and ethical work practices.

Core Requirements

AUTO 102	Automotive Systems	3.5
AUTO 103	Light Line Technician	2.0
AUTO 118	Fuel Systems/Emission Controls	3.0
AUTO 119	Introduction to Engine Performance	2.5
AUTO 122	Advanced Electrical Systems	3.0
AUTO 125	Automotive Electronics	2.0
AUTO 127	Ignition Systems	3.0

AUTO 129	DSO, GDMM, Scan Tool Diagnosis	1.5
AUTO 133	Computerized Engine Management	2.5
AUTO 138	Work Experience	1.0
AUTO 141*	Clean Air Car Course	5.0
AUTO 145	Enhanced Emission Diagnostics Level 2	2.0
AUTO 170	Electrical Systems	3.0
AUTO 171	Engine Systems	2.5
AUTO 172	Chassis and Drivetrain Systems	2.5
AUTO 173	Automotive Service Operations	2.0
AUTO 202	Bugged Vehicle Diagnosis	1.5

Core Requirements	42.5
General Education Requirements	<u>24.0</u>
Total Units	66.5

ELECTRICAL-ENGINE PERFORMANCE – CERTIFICATE OF ACHIEVEMENT

Provides significant state of the art training and applicable employment skills in the following ASE certification topics: Electrical, Engine Performance, Advanced Engine Performance. Also provides training and preparation for CA state emissions inspection license. Students must complete each major requirement course with a grade of ‘C’ or better to be awarded the degree in Automotive Technology.

AUTO 102	Automotive Systems	3.5
AUTO 103	Light Line Technician	2.0
AUTO 118	Fuel Systems/Emission Controls	3.0
AUTO 119	Introduction to Engine Performance	2.5
AUTO 122	Advanced Electrical Systems	3.0
AUTO 125	Automotive Electronics	2.0
AUTO 127	Ignition Systems	3.0
AUTO 129	DSO, GDMM, Scan Tool Diagnosis	1.5
AUTO 133	Computerized Engine Management	2.5
AUTO 138	Work Experience	1.0
AUTO 141*	Clean Air Car Course	5.0
AUTO 145	Enhanced Emission Diagnostics Level 2	2.0
AUTO 170	Electrical Systems	3.0
AUTO 171	Engine Systems	2.5
AUTO 173	Automotive Service Operations	2.0
AUTO 202	Bugged Vehicle Diagnosis	1.5
Total Units		40.0

**California Apprenticeship requires a grade of “B” or better (for this course)*

SMOG SPECIALIST – CERTIFICATE OF ACHIEVEMENT

The Smog Specialist certificate is one of several degrees and certificate options offered through the Automotive Technology Department at Evergreen. This certificate will prepare students (without a smog license or one expired more than 2 years) for the position of a BAR certified California Smog Technician. Students will learn the laws, regulations, procedures, consumer rights and obligations, licenses, tools, and diagnostic skills that are needed to be successful in the workplace. Students must individually obtain ASE certifications by passing ASE A6, A8, and L1 certifications, or BAR Equivalent and necessary educational technical training as required by the Bureau of Auto Repair to meet minimum requirements. Students must complete course requirements and maintain a grade of ‘C’ or better in each course to be awarded the certificate.

Program Learning Outcomes:

- Demonstrate knowledge of theory, operation, fault validation, appropriate choice and execution of diagnostic methods, safe and environmentally sensitive practices, and efficient work habits of the following systems in a production environment.
- Operate/calibrate emissions testing equipment.
- Validate service and/or repair success, insure customer satisfaction, document service/repair information: Electrical Systems, Engine Performance, and Emission Control Systems.

AUTO 133	Computerized Engine Management	2.5
AUTO 138	Auto Work Experience	0.5
AUTO 141*	Clean Air Car Course	5.0
AUTO 145	Enhanced Emission Diagnostics Level 2	2.0
AUTO 147X**	BAR Update (Offered biannually)	1.0
AUTO 202	Bugged Vehicle Diagnosis	1.5
Total Units		12.5

NOTE: Students with current EB or EA license are not required to take all courses listed above. For course substitutions, see Automotive Department.

*California Apprenticeship requires a grade of "B" or better (for this course)

**Auto 147X represents the BAR updated training course with a letter designation corresponding to the most recent smog regulations.

BIOLOGY – ASSOCIATE IN ARTS

The purpose of the associate degree in Biology is to provide a lower division science foundation for those interested in pursuing biology as a major field of study. This major prepares students to transfer to any California State University or University of California campus. Students considering careers in research, teaching, medical fields, biotechnology, or other related fields require a foundation in biological sciences. The Biology major is an ideal academic preparation for entry into these professions. Students must complete each major course and major elective course with a grade of 'C' or better to be awarded the degree.

Program Learning Outcomes:

- Employ the scientific method to pose testable hypotheses and make predictions.
- Design and implement controlled experiments or observational studies to test predictions.
- Collect, quantify, summarize, interpret, and present biological data.
- Critically assess biological arguments.
- Use computers to access multimedia lessons and conduct Internet searches for information on biological phenomena.
- Write scientific papers and laboratory reports.
- Use scientific terms appropriately.
- Describe the importance of evolution as a guiding principle in biology.
- Explain and apply general biological principles to include biochemistry, cell and molecular biology, organismal biology, genetics, evolutionary biology, and ecology.
- Integrate the concepts and systems of homeostasis.

- Compare and contrast the cells, tissues, organs, and organ systems of plant and animal organisms.
- Apply general chemistry principles to biological processes and systems.

Core Requirements

BIOL 004A	General Principles and Cell Biology	5.0
BIOL 004B	Organismal Biology & Biodiversity	5.0
CHEM 001A	General Chemistry	5.0
CHEM 001B	General Chemistry	5.0

Required Major Electives (8 units from the following) 8.0

BIOL 020	Human Biology
BIOL 025	Forensic Biology
BIOL 033	Biotechnology and Society
BIOL 061	Human Heredity
BIOL 062	Plants and Human Welfare
BIOL 063	Ecology
BIOL 064	Marine Biology
BIOL 065	Wildlife Biology
BIOL 071	Human Anatomy
BIOL 072	Human Physiology
BIOL 074	General Microbiology
BIOL 080	Biology Field Program
ENVIR 010	Environmental Science

Recommended Chemistry/Math Preparation

CHEM 012A	Organic Chemistry
CHEM 012B	Organic Chemistry
MATH 063	Elementary Statistics
MATH 071	Calculus I with Analytic Geometry
MATH 072	Calculus II with Analytic Geometry

Core Requirements	20.0
Required Electives	8.0
General Education Requirements	*33.0
Physical Activity	<u>1.0</u>
Total Units	62.0

*6 units of G.E. (Area B) can be met in Physical and Biological Science from required major/elective courses

BUILDING INFORMATION MODELING (BIM) – CERTIFICATE OF ACHIEVEMENT

The BIM Program will offer students the opportunity to develop the skills necessary to be BIM Specialists and consultants in the construction industry in both the public and private sectors. This program will acquaint students with the various BIM software and technologies that are being used throughout the construction industry. Certificates will be awarded to those who complete all of the units with a 'C' or better.

Program Learning Outcomes:

- Demonstrate their ability to use various types of BIM software (i.e. Revit, Navisworks).
- Execute project delivery and coordination of construction projects.
- Utilize communication and workflow to complete projects efficiently.
- Identify conflict detection in building designs through 3-D visualization techniques.
- Demonstrate the ability to reduce construction costs and eliminate fabrication waste.

- Work collaboratively with construction teams and subcontractors.
- Identify the crucial factors impacting the construction/building industry in the 21st century.
- Compare and contrast the workflow changes of the 20th and 21st century construction industry.

BIM 120	Construction Means, Methods, and Materials	3.0
BIM 121	Virtual Design and Construction Workflow	3.0
CIT 010	Computer and Information Technology	3.0
BIM 122	Managing Construction Coordination Meetings	3.0
BIM 123	Revit Fundamentals	3.0
BIM 124	Revit Advanced training	3.0
BIM 125	Planning and Managing Construction Projects with 4D CAD and Simulations	3.0
BIM 138	BIM Work Experience	3.0
Total Units		24.0

BUSINESS ADMINISTRATION – ASSOCIATE IN SCIENCE FOR TRANSFER

This program provides students with the knowledge, both in practice and theory, to complete the lower division requirements and prepare them to transfer to a four-year institution and to earn a Bachelor’s Degree. The degree is intended for students who plan to complete a bachelor’s degree in a similar major at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Included in the curriculum are core courses in accounting, economics, business law, and mathematics. The student will learn to analyze data and problems related to businesses and use the basic analytic business tools to find solutions.

Students who complete the AS-T in Business Administration must have the following:

- Completion of 60 CSU transferrable semester units
- A minimum of at least 2.0 GPA in CSU transferrable courses (note that a higher GPA may be required in some institutions)
- Completion of at least 18 units in the major with a grade of “C” or better
- Certified completion of the CSU General Education-Breadth (CSU GE-Breadth) requirements, or completion of the Intersegmental General Education Transfer Curriculum (IGETC) requirements

Please Note: No more than 60 semester units are required for this degree and no additional requirements will be imposed by Evergreen Valley College.

Program Learning Outcomes:

- Solve business problems through statistical analysis.
- Utilize current business theories to manage staff in a successful manner.
- Use various motivational theories to improve productivity.
- Demonstrate knowledge of organizational structure and behavior, and ethical responsibilities of corporations.
- Demonstrate knowledge of management, marketing, finance and accounting, operations and information systems.

Core Requirements: Select 5 courses (15 units)

ACCTG 001A	Principles of Financial Accounting	4.0
ACCTG 001B	Managerial Accounting	4.0
ECON 010A	Principles of Macroeconomic Theory	3.0
ECON 010B	Introduction to Microeconomic Theory	3.0
BUS 071	Legal Environment of Business	3.0

List A: Select one course 3.0

BUS 060	Fundamentals of Business Statistics	
MATH 061	Finite Mathematics	
MATH 062	Calculus for Business and Social Science	

List B: Select two courses 6.0

Any course from LIST A not already used

CIT 010	Computer and Information Technology	
BUS 082	Introduction to Business	

Major Requirements (Core, List A, List B):	26.0
CSU GE Breadth or IGETC for CSU	37.0-39.0
Possible double counted	9.0
Transferable Electives (as needed)	4-6
Total Units	60.0

BIS – INFORMATION PROCESSING SPECIALIST – ASSOCIATE IN SCIENCE

This degree program is for students who wish to increase their knowledge and skills to meet the technological changes in the business environment. Students learn to work with the flow of information—entering and processing data and ensuring its accuracy. Opportunities in this field are vast, as all aspects of business are impacted with the efficient use of technology. Students must complete each major course and major elective course with a grade of ‘C’ or better to be awarded the degree.

Program Learning Outcomes for BIS, Information Processing Specialist Associate in Science degree and Certificate of Achievement:

- Provide students with valuable software skills and soft skills so that they can stay current with the evolving employment needs of industry.
- Provide our students with a practical working knowledge of industry standard software.

BIS 007	Business Writing Skills	3.0
BIS 012	Business Document Production	2.0
BIS 039	Professional Image	1.0
BIS 095	Microsoft Windows	1.0
BIS 101	Professional Business Communication	3.0
BIS 102	Microsoft Excel	3.0
BIS 106	Microsoft Word	3.0
BIS 109	Microsoft Office	3.0
BIS 121	Web Techniques for Business	1.0
BIS 135	Human Relations in the Workplace	3.0
CIT 010	Computer and Information Technology	3.0
CIT 040	Web Design I: Internet Publishing	3.0

Major Requirements	29.0
Major Electives*	7.0
General Education Requirements	24.0
Total Units	60.0

*Major electives - choose from the following list: ACCTG 030, 101, BIS 016, 017, 105, 160, 161, 162, BUS 060, 060L, 071, 082, 084

BIS – INFORMATION PROCESSING SPECIALIST – CERTIFICATE OF ACHIEVEMENT

This program is designed for students who wish to enhance their computer knowledge and skills, communications, and professionalism. Practical application of skills is emphasized. Students must complete each course with a grade of 'C' or better to be awarded the certificate.

BIS 007	Business Writing Skills	3.0
BIS 011	Computer Keyboarding	1.0
BIS 012	Business Document Production	2.0
BIS 039	Professional Image	1.0
BIS 095	Microsoft Windows	1.0
BIS 101	Professional Business Communication	3.0
BIS 102	Microsoft Excel	3.0
BIS 106	Microsoft Word	3.0
BIS 109	Microsoft Office	3.0
BIS 121	Web Techniques for Business	1.0
BIS 135	Human Relations in the Workplace	3.0
CIT 010	Computer and Information Technology	3.0
CIT 040	Web Design I: Internet Publishing	3.0
Total Units		30.0

BIS – GENERAL BUSINESS – ASSOCIATE IN SCIENCE

This program is designed for students who want a broad and generalized background in business. This degree allows the student the flexibility to choose a specific area of concentration. Students will learn skills for many different business settings. Job opportunities are in various fields such as sales, retail, marketing, and small business ownership. Students must complete each major course and major elective course with a grade of 'C' or better to be awarded the degree.

Program Learning Outcomes for BIS, General Business Associate in Science degree and Certificate of Achievement:

- Provide students with valuable software skills and soft skills so that they can stay current with the evolving employment needs of industry.
- Provide our students with a practical working knowledge of industry standard software.

ACCTG 030	QuickBooks	3.0
ACCTG-101	Bookkeeping for Small Business	3.0
BIS 012	Business Document Production	2.0
BIS 039	Professional Image	1.0
BIS 095	Microsoft Windows	1.0
BIS 101	Professional Business Communication	3.0
BIS 102	Microsoft Excel	3.0
BIS 109	Microsoft Office	3.0
BIS 121	Web Techniques for Business	1.0
BIS 135	Human Relations in the Workplace	3.0
BUS 082	Introduction to Business	3.0
BUS 084	Introduction to Marketing Principles	3.0
CIT 010	Computer and Information Technology	3.0
ECON 010B	Introduction to Microeconomic Theory	3.0
Core Requirements		35.0
Major Electives*		1.0
General Education Requirements		24.0
Total Units		60.0

*Major electives - choose from the following list: BIS 007, 016, 017, 104, 105, 107, 160, 161, 162, BUS 060, 060L, 071

BIS – GENERAL BUSINESS–CERTIFICATE OF ACHIEVEMENT

This program is for students who wish to broaden their background in business. Students are introduced to various business areas. The program provides choices for students who wish to further pursue a specific area in business. Students must complete each course with a grade of 'C' or better to be awarded the certificate.

ACCTG 030	QuickBooks	3.0
ACCTG 101	Bookkeeping for Small Business	3.0
BIS 012	Business Document Production	2.0
BIS 039	Professional Image	1.0
BIS 095	Microsoft Windows	1.0
BIS 101	Professional Business Communication	3.0
BIS 102	Microsoft Excel	3.0
BIS 109	Microsoft Office	3.0
BIS 121	Web Techniques for Business	1.0
BIS 135	Human Relations in the Workplace	3.0
BUS 082	Introduction to Business	3.0
CIT 010	Computer and Information Technology	3.0
ECON 010B	Introduction to Microeconomic Theory	3.0
Total Units		32.0

CHEMISTRY – ASSOCIATE IN ARTS

The purpose of the A.A. Degree in Chemistry is to provide a lower-division science foundation for those interested in pursuing chemistry or biochemistry as a major field of study. This major prepares students to transfer to any California State University or University of California campus. Students considering careers in research, teaching, scientific consulting, or medicine, and the chemical, pharmaceutical, or biotechnology industries, find the Chemistry major an ideal academic preparation for entry into these professions. The Chemistry Major consists of the following courses - All four (4) of the following courses are mandatory for the degree; for the transfer of these courses to a four-year school, a letter grade 'C' or better is needed in each.

Program Learning Outcomes:

- Provide lower division science course foundation needed for our graduating students to be adequately prepared to take upper division courses at the university.
- Provide the opportunity to earn an Associates level degree in chemistry for those students transferring to universities.
- Provide technical training in chemistry/biochemistry for students interested in careers as diverse as health sciences, engineering, industrial chemistry, pharmacy, materials science, and teaching.
- Meet the needs of business and industry for employees who can apply scientific methodologies and math skills, communicate effectively, and think critically.
- Enhance college retention and success efforts, outlined in the College Educational Master Plan and Enrollment Management Plan, by providing greater flexibility in meeting individual student educational and employment objectives.

Core Requirements

CHEM 001A	General Chemistry	5.0
CHEM 001B	General Chemistry	5.0
CHEM 012A	Organic Chemistry	5.0
CHEM 012B	Organic Chemistry	5.0

Required Math Electives:

MATH 071 & 072 (10 units)

These courses in Calculus, with five hours of lecture per week for two semesters, required for Chemistry majors.

General Education Requirements

AREA A: English Communication	9.0
AREA B: Science*	3.0
Math**	0.0
AREA C: Arts and Humanities	6.0
AREA D: Social and Behavioral Sciences	9.0
AREA E: Lifelong Understanding	3.0
Core Requirements*	20.0
Math Electives**	10.0
General Education Requirements	30.0
Physical Activity (graduation requirement)	1.0
Total Units	61.0

* CHEM 001A counts as 5 units of G.E. for Area B: Science.
 ** MATH 071 & 072 can partially count towards G.E.

COMMUNICATION STUDIES – ASSOCIATE IN ARTS FOR TRANSFER

Communication Studies is the study of human communication. It includes public speaking, argumentation and persuasion, and interpersonal, intercultural, and small group communication. The importance of communication awareness, training, and skills are essential for successful and fulfilling personal, professional, and academic relationships and activities. Communication skills, theory, and practice are useful in any career including: education, business management, communication management, journalism, law enforcement, mass media and media arts, political science, public policy and administration, social work, public relations, advertising, broadcasting, technology, and finance.

Students who complete the AA-T in Communication Studies must have the following:

- Completion of 60 CSU transferrable semester units
- A minimum of at least 2.0 GPA in CSU transferrable courses (note that a higher GPA may be required in some institutions)
- Completion of at least 18 units in the major with a grade of "C" or better
- Certified completion of the CSU General Education-Breadth (CSU GE-Breadth) requirements, or completion of the Intersegmental General Education Transfer Curriculum (IGETC) requirements

Please Note: No more than 60 semester units are required for this degree and no additional requirements will be imposed by Evergreen Valley College.

Program Learning Outcomes:

- Express and convey message clearly for effective oral communication
- Demonstrate effective listening skills to comprehend spoken messages, analyze information critically, and consider multiple perspectives
- Participate in the civic life of their communities through public address and civic engagement, and advocate for positive change

- Articulate the importance of diversity, differing belief and value systems, as well as individual opinions
- Apply interpersonal skills to create and maintain successful and beneficial social and civic relationships
- Describe communication technology and its impact on human communication practices

Core Requirements

COMS 020 Oral Communication 3.0

LIST A: Select two courses 6.0

COMS 040 Introduction to Argumentation
 COMS 010 Interpersonal Communication
 COMS 045 Small Group Communication

LIST B: Select two courses 6.0

Any course from LIST A not already used
 COMS 035 Intercultural Communication
 COMS 018 Introduction to Communication
 JOURN 010 Mass Media Communication

LIST C: Select one course 3.0

Any course from LIST A or B not already used

ANTH 063 Introduction to Social and Cultural Anthropology
 ENGL 001B English Composition
 ENGL 001C Critical Thinking/Composition
 JOURN 014 Newswriting and Reporting
 PSYCH 001 General Psychology
 SOC 010 Introduction to Sociology

Major Requirements (Core, List A, List B, List C): 18.0
 CSU GE-B or IGETC for CSU 37.0-39.0
 General Electives (to reach 60 units) 6.0-18.0
Total Units 60.0

COMPUTER AIDED DESIGN & DRAFTING – ASSOCIATE IN SCIENCE

Drafters and designers prepare technical drawings, designs, diagrams and specifications for a wide variety of commercial, industrial, and government projects. Computer hardware design, aerospace drafting and design, architectural design and drafting, electronics design, technical illustration and the design and drafting of such items as: disk drive mechanisms, cellular telephones, and medical equipment; are just a few of the areas of employment available for drafters and designers in our local area. Specializing in state-of-the-art CADD instruction, featuring AutoCAD, Revit, Civil 3-D, ACAD Mechanical, SolidWorks and Creo CAD tools, the CADD department at Evergreen Valley College offers a wide variety of course work designed for individuals wanting to upgrade and expand their existing technical skills and for new students wanting to prepare for employment in numerous CADD related fields. The CADD Technology department also offers certificate options and an Associate in Science Degree option. A 'C' grade or better is required in each CADD course and all major prerequisite courses for graduation and/or certificate options.

Program Learning Outcomes:

- Demonstrate knowledge in AutoDesk products (Inventor, AutoCAD/ Mechanical / Civil 3D, and Revit), Creo, and

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SolidWorks CAD systems.

- Prepare for employment as an engineering technician/CAD drafter, in architectural engineering or in civil engineering and design at an entry level.

CADD 130	Fundamentals of AutoCAD	3.0
CADD 131	3-D Modeling and Design Using AutoCAD	2.0
CADD 133	Using Autodesk Inventor OR	
CADD 139	Using Solidworks	2.0
CADD 144A	Architectural Design and Drafting Using Revit Architecture	2.0
CADD 140A	Technical Graphics Using CAD Tools	2.0
CADD 140B	Advanced Technical Graphics Using CAD Tools	2.0
CADD 141	Design and Analysis Using Creo or SolidWorks	2.0
BIS 109	Microsoft Office OR	
CIT 040	Web Design I: Internet Publishing	3.0
<u>Plus 12 units minimum from the following:</u>		12.0
CADD 132	Using AutoCAD Mechanical	
CADD 134	Advanced Autodesk Inventor	
CADD 135	Design Using AutoCAD Civil-3D	
CADD 142	Geometrical Dimensioning and Tolerancing	
CADD 144B	Architectural Design and Drafting Using Revit Structure and MEP	
CADD 145	Landscaping Design Using CAD Tools	
CADD 146A	AutoCAD Software Updates	
CADD 150	CADD Document Management	

Core Requirements	30.0
Electives	6.0
General Education Requirements	<u>24.0</u>
Total Units	60.0

ARCHITECTURAL CADD—CERTIFICATE OF SPECIALIZATION

Students will learn substantive job skills in three major architectural, and civil engineering technology CAD software: AutoCAD Architecture, AutoCAD Civil 3D and Revit systems. A 'C' grade or better is required in each course to be awarded the certificate.

Program Learning Outcomes:

- Demonstrate substantive job skills in three major architectural, and civil engineering technology CAD software: AutoCAD Architecture, AutoCAD Civil 3D and Revit systems.

CADD 144A	Architectural Design and Drafting Using Revit Architecture	2.0
CADD 144B	Architectural Design and Drafting Using Revit Structure and MEP	2.0

Plus one course from the following:

CADD 135	Design Using AutoCAD Civil-3D	
CADD 145	Landscaping Design Using CAD Tools	2.0
Total Units		6.0

AUTODESK – CERTIFICATE OF SPECIALIZATION

Program Learning Outcomes:

- To prepare individuals who seek employment as an engineering technician/CAD drafter, in architectural

engineering or in civil engineering and design by providing them with an overview of the latest version AutoDesk software while building transferable skills in computer aided drafting, architectural and construction design, and problem solving.

- Serves the needs of those currently employed or wishing to re-enter the mechanical engineering, civil engineering or architectural and design fields and needing to update technology and software skills.
- Completion of the program will enable students to be employable in industrial, mechanical, architectural, and civil engineering and design at an entry level.

CADD 130	Fundamentals of AutoCAD	3.0
CADD 131	3-D Modeling & Design Using AutoCAD	2.0

Plus one course from the following:

CADD 132	Using AutoCAD Mechanical	
CADD 133	Using Autodesk Inventor	
CADD 135	Design Using AutoCAD Civil-3D	
CADD 144A	Architectural Design and Drafting Using Revit Architecture	2.0

Total Units **7.0**

CADD – MECHANICAL MODELING – CERTIFICATE OF SPECIALIZATION

Completion of the program will enable students to be employable in industrial, mechanical, architectural, and civil engineering and design at an entry level. A 'C' grade or better is required in each course to be awarded the certificate.

Program Learning Outcomes:

- Demonstrate substantive entry and mid-level skills using AutoCAD, AutoCAD Mechanical, Inventor, SolidWorks and Creo.

CADD 130	Fundamentals of AutoCAD	3.0
CADD 131	3-D Modeling and Design Using AutoCAD	2.0

Plus three courses (6 units) from the following: 6.0

CADD 132	Using AutoCAD Mechanical	
CADD 133	Using Autodesk Inventor	
CADD 134	Advanced Autodesk Inventor	
CADD 139	Using Solidworks	

Total Units **11.0**

DIGITAL PROTOTYPING – CERTIFICATE OF SPECIALIZATION

Students will learn the fundamentals of digital prototyping using AutoCAD Mechanical, Creo and SolidWorks. A 'C' grade or better is required in each course to be awarded the certificate.

Program Learning Outcomes:

- Demonstrate the fundamentals of digital prototyping using AutoCAD Mechanical, Creo and SolidWorks
- Demonstrate substantive job skills to be employable in industrial and mechanical engineering and design at an entry level

CADD 140A	Technical Graphics Using CAD Tools	2.0
CADD 140B	Advanced Technical Graphics Using CAD Tools	2.0

CADD 141	Design and Analysis Using Creo or SolidWorks	2.0
CADD 142	Geometrical Dimensioning and Tolerancing	2.0
<u>One course from the following:</u>		2.0
CADD 132	Using AutoCAD Mechanical	
CADD 133	Using Autodesk Inventor	
CADD 139	Using Solidworks	
Total Units		10.0

3-D CADD – CERTIFICATE OF SPECIALIZATION

The program teaches students substantive entry and mid-levels skills using AutoCAD, Inventor, SolidWorks and Creo for 3-D modeling and digital prototyping. A 'C' grade or better is required in each course to be awarded the certificate.

Program Learning Outcomes:

- Demonstrate substantive entry and mid-levels skills using AutoCAD, Inventor, SolidWorks and Creo for 3-D modeling and digital prototyping.

CADD 133	Using Autodesk Inventor	2.0
CADD 139	Using Solidworks	2.0

<u>Plus one course from the following:</u>		2.0
CADD 131	3-D Modeling and Design Using AutoCAD	
CADD 134	Advanced Autodesk Inventor	
CADD 135	Design Using AutoCAD Civil-3D	
Total Units		6.0

DANCE – CERTIFICATE OF SPECIALIZATION

The Certificate of Specialization in Dance is an opportunity for students to grow and develop in the area of Dance. The certificate includes a lecture class as well as various genres and levels of dance technique. Students will learn both Beginning and Intermediate skills in Modern, Jazz and Social (Ballroom) dance techniques. Focus will be on foundation, form, alignment, flexibility, technique, body awareness, phrasing, musicality, loco-motor patterns of movement, choreography and performance in each of the styles. Students will also learn about the background and history of Dance by taking Dance Appreciation. The Certificate will enhance the students' knowledge in history while simultaneously giving practical experience and guidance to the dancer. Students will gain a strong foundation in an array of dance genres. This certificate is recommended for students who want to enhance their skills in dance, teach dance at a studio or possibly major or minor in dance.

Program learning Outcomes:

- Critically compare various dance genres on the basis of movement, historic context, and as an expression of self and culture.
- Apply proper posture, alignment, foundation, vocabulary, and performance quality to a variety of dance techniques.
- Demonstrate effective communication, behavior and teamwork necessary for artistic collaboration and group work within a population of varied backgrounds.

- Create and perform original dance choreography using the principles of composition in class or for a live public performance.
- Demonstrate proper dance vocabulary and theatre etiquette as a student, performer or audience member

DANCE 002	Dance Appreciation	3.0
DANCE 050	Modern Dance, Beginning	1.0
DANCE 051	Modern Dance, Intermediate	1.0
DANCE 020	Jazz Dance, Beginning	1.0
DANCE 021	Jazz Dance, Intermediate	1.0
DANCE 022	Social Dance	1.0
DANCE 022B	Intermediate Social Dance	1.0
Total Units		9.0

ENGINEERING

Evergreen Valley College offers a two-year lower division Engineering Program which allows students to transfer to any four-year California College or University offering degree in Engineering. The lower division Engineering Core Courses recommended by the Engineering Liaison Committee of the State of California have been coordinated between community colleges and the four-year colleges and universities throughout California.

The Associate in Arts and the Associate in Science Degrees are available for engineering students. The Engineering Degree Programs consist of the Engineering Core courses plus General Education courses which satisfy graduation requirements. Students wishing to transfer to a four-year institution in a branch of engineering, but do not wish to obtain an Associate Degree must complete the Engineering Core courses and obtain a Verification of Completion Form from the office of Admissions & Records before transferring. It is recommended that students complete as much of their General Education requirements as possible. To facilitate the application process to four-year institutions, students should request a Verification of Completion Form from the Office of Admissions and Records for verification of completion of the lower division Engineering Core courses. Students must complete each major course and major elective course with a grade of 'C' or better.

Program Learning Outcomes for Engineering Associate in Arts and Associate in Science Degrees:

- Design and conduct experiments as well as analyze and interpret data.
- Design a system, component, or process as per customer specifications.
- Identify potential changes in behavior and properties of materials as they are altered and influenced by manufacturing processes and loading conditions.
- Assess the safety and environmental consequences of proposed design.
- Demonstrate an awareness of the human and social ramifications of technological solutions in a global and societal context.
- Work and communicate effectively, either independently or in a team, to solve technical problems using engineering principles.

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- Demonstrate an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

ENGINEERING – ASSOCIATE IN ARTS

ENGR 010	Engineering Processes and Tools	3.0
ENGR 018	Engineering Design and Graphics	3.0
ENGR 050	Introduction to Computing	4.0
ENGR 066	Properties of Materials	3.0
ENGR 069	Statics	3.0
ENGR 071	Introduction to Circuits Analysis	4.0
CHEM 001A	General Chemistry	5.0
ENGL 001A	English Composition (or equivalent)	3.0
MATH 071	Calculus I with Analytic Geometry	5.0
MATH 072	Calculus II with Analytic Geometry	5.0
MATH 073	Multivariable Calculus	5.0
MATH 078	Differential Equations	4.0
PHYS 004A	General Physics	5.0
PHYS 004B	General Physics	5.0
PHYS 004C	General Physics	5.0

Core Requirements	62.0
General Education Requirements	<u>24.0</u>
Total Units	86.0

ENGINEERING – ASSOCIATE IN SCIENCE

ENGR 010	Engineering Processes and Tools	3.0
ENGR 018	Engineering Design and Graphics	3.0
ENGR 050	Introduction to Computing	4.0
ENGR 066	Properties of Materials	3.0
ENGR 069	Statics	3.0
ENGR 071	Introduction to Circuits Analysis	4.0
CHEM 001A	General Chemistry	5.0
ENGL 001A	English Composition (or equivalent)	3.0
MATH 071	Calculus I with Analytic Geometry	5.0
MATH 072	Calculus II with Analytic Geometry	5.0
MATH 073	Multivariable Calculus	5.0
PHYS 004A	General Physics	5.0
PHYS 004B	General Physics	5.0

Core Requirements	53.0
General Education Requirements	<u>21.0</u>
Total Units	74.0

ENGLISH – ASSOCIATE IN ARTS FOR TRANSFER

The Associate in Arts in English for Transfer degree is designed to prepare students to seamlessly transfer into the California State University (CSU) system and complete a baccalaureate degree in English or similar field of study. A baccalaureate degree in English cultivates strong reading, writing, analytical, and creative skills. It provides a sound foundation for students seeking careers in advertising, communication, film writing, electronic and print journalism, library science, public relations, publishing and editing, law, or teaching.

Students who complete the AA-T in English must have the following:

- Completion of 60 CSU transferrable semester units

- A minimum of at least 2.0 GPA in CSU transferrable courses (note that a higher GPA may be required in some institutions)
- Completion of at least 18 units in the major with a grade of "C" or better
- Certified completion of the CSU General Education-Breadth (CSU GE-Breadth) requirements, or completion of the Intersegmental General Education Transfer Curriculum (IGETC) requirements

Please Note: No more than 60 semester units are required for this degree and no additional requirements will be imposed by Evergreen Valley College.

Program Learning Outcomes:

- Demonstrate knowledge of and familiarity with the methods of interpreting literature across genres.
- Assess, evaluate, and analyze ideas expressed in text or in spoken language.
- Express orally and in writing coherent arguments that evidence clear prose and synthesize and respond to diverse bodies of knowledge

Core Requirements:

ENGL 001B	English Composition	3.0
ENGL 001C	Critical Thinking/Composition	3.0

LIST A: Select two courses (6 units) 6.0

ENGL 084A	Survey of American Literature I
ENGL 084B	Survey of American Literature II
ENGL 086A	Survey of English Literature I
ENGL 086B	Survey of English Literature II
HUMNT 002	Introduction to World Literature

LIST B: Select one course (3 units) 3.0

Any LIST A course not already used or	
ENGL 021	Introduction to Poetry
ENGL 028	Introduction to World Mythology
ENGL 033	Women in Literature
ENGL 073	Introduction to Shakespeare
ENGL 072	Fundamentals of Creative Writing

LIST C: Select one course (3 units) 3.0

Any LIST A or B course not already used or	
ENGL 052	Children's/Adolescent Literature
ENGL 062	Asian/Asian-American Literature
ENGL 080	Mexican-American Literature
ENGL 082A	African American Literature
FREN 001B	Elementary French
SPAN 001B	Elementary Spanish
SPAN 002A	Intermediate Spanish

Major Requirements (<i>Core, List A, List B, List C</i>):	18.0
CSU-GE or IGETC for CSU	37.0-39.0
Elective (CSU Transferable units)	<u>10.0-18.0</u>
Total Units	60.0

ENGLISH - ASSOCIATE IN ARTS

Students considering careers in advertising, communication, film writing, electronic and printing journalism, library science, public relations, publishing and editing, or teaching find the English major and ideal academic preparation for entry into these professions. In addition, the English major readies students for graduate programs, including communication, history, law, and medicine. Students must complete each major course and major elective course with a grade of 'C' or better to be awarded the degree.

Program Learning Outcomes:

- Demonstrate knowledge of and familiarity with the methods of interpreting literature across genres.
- Assess, evaluate, and analyze ideas expressed in text or in spoken language.
- Express orally and in writing coherent arguments that evidence clear prose and synthesize diverse bodies of knowledge

Core Classes

ENGL 001B	English Composition	3.0
ENGL 084A	Survey of American Literature I	3.0
ENGL 084B	Survey of American Literature II	3.0
ENGL 086A	Survey of English Literature I	3.0
ENGL 086B	Survey of English Literature II	3.0

Major Electives (select 3 courses from the following): 9.0

ENGL 021	Introduction to Poetry	
ENGL 028	Introduction to World Mythology	
ENGL 033	Women in Literature	
ENGL 072	Fundamentals of Creative Writing	
ENGL 073	Introduction to Shakespeare	
HUMNT 002	Introduction to World Literature	

Core Requirements	15.0
Major Electives	9.0
General Education Requirements	<u>39.0</u>
Total Units	63.0

ENTREPRENEURSHIP – CERTIFICATE OF ACHIEVEMENT

The Entrepreneurship Program will offer students the opportunity to develop the skills necessary to start and operate a business in an urban environment. This program will acquaint students with an array of business models that can be used for new start-ups, as well as acquaint them with how to acquire the resources they will need to succeed in the form of a sole proprietorship, partnership, or corporate entity. Certificates will be awarded to those who complete all of the units with a 'C' or better.

Program Learning Outcomes:

- Define the roles of entrepreneurs and small business in today's economy.
- Analyze and address the problems in buying or starting a new business.
- Develop a business plan.
- Demonstrate the ability to start a new business.
- Execute business feasibility study.
- Make critical business decisions in a timely manner.
- Work collaboratively with potential business partners.

- Identify the crucial factors impacting a business environment.
- Analyze a balance statement, income statement, and bank statements.
- Identify the various sources of funding to start a new business.

ACCTG 101	Bookkeeping for Small Business	3.0
BIS 101	Professional Business Communication	3.0
BUS 004	Business Plan Development	3.0
BUS 006	Introduction to Small Business Mgmt.	3.0
BUS 009	Introduction to Entrepreneurship	3.0
BUS 082	Introduction to Business	3.0
BUS 084	Introduction to Marketing Principles	3.0
LA 042	Corporate and Partnership Law	3.0

3 units from the following: 3.0

ACCTG 030	QuickBooks	
BIS 104	Microsoft Access	
BIS 109	Microsoft Office	
BIS 135	Human Relations in the Workplace	
BUS 138	Work Experience	

Total Units 27.0

GENERAL STUDIES WITH EMPHASIS IN ASTRONOMY ASSOCIATE IN ARTS

The Associate in Arts Degree in General Studies with Emphasis in Astronomy provides a lower division science foundation for those interested in the field of astronomy. Astronomy amateurs, planetarium operators, science teachers, and future astronomy baccalaureate majors are potential students in this program. It incorporates courses in physics, requiring familiarity with the laws of physics to describe and predict astronomical events. The program outlines a course of study that emphasizes breadth in the physical sciences. This program also provides a good focus for students interested in obtaining a credential in elementary science education. Students must complete each required area of emphasis course with a grade of 'C' or better.

Program Learning Outcomes:

- Demonstrate effective use of the language when communicating scientific information, using methodological skepticism to scrutinize knowledge and to formulate opinions about world situations
- Analyze data collected in laboratory experimentation and formulate predictions using computer technology, mathematics, and consistent significant figures
- Solve problems representing real world situations using classical and/or modern physics
- Demonstrate understanding of the scientific method, by clearly identifying its use in current scientific developments, and in historical scientific revolutions
- Show personal responsibility and social awareness by exercising ethical leadership and balanced critique of new scientific developments and public affairs

Area of Emphasis Requirements

ASTRO 010	Introduction to Astronomy	3.0
ASTRO 010L	Introductory Astronomy Lab	1.0
ASTRO 014	Solar System Astronomy	3.0
ASTRO 016	Stars Galaxies and the	

	Origin of the Universe	3.0
PHYS 004B	General Physics	5.0
PHYS 004C	General Physics	5.0
Area of Emphasis Requirements		20.0
General Education Requirements		39.0
Physical Activity		<u>1.0</u>
Total Units		60.0

GENERAL STUDIES WITH EMPHASIS IN HEALTH SCIENCE – ASSOCIATE IN ARTS

The Associate in Arts Degree program in General Studies with Emphasis in Health Science outlines a course of study for students interested in allied health careers. Students will learn to apply scientific methods to explore human structure and function, and health aspects of microbiology. The program satisfies CSU GE requirements and includes courses for students planning careers in health science fields. Students must complete each required area of emphasis course with a grade of 'C' or better.

Program Learning Outcomes:

- Use library databases and the Internet to efficiently find information relevant to health science
- Use appropriate terminology to express physical measurements, describe biological processes. identify body structures, and name chemical entities.
- Apply scientific principles to solve practical problems in microbiology, physiology, and chemistry.
- Analyze and interpret experimental or clinical data.
- Demonstrate use of the light microscope to view cells and tissues.
- Describe homeostatic controls and specific functions of the human body.
- Describe relationships between microbes and hosts, as well as between different taxonomic groups of microbes.
- Assess physical, chemical, and antibiotic measures to control or prevent microbial growth.
- Identify and describe common microbes, diseases caused, their modes of transmission, and means to reduce their transmission.
- Describe components of innate and adaptive immune systems and how protection against infections is provided.
- Describe the biology of DNA and microbial genetics.
- Explain how gases, liquids, solids, and solutions behave.
- Predict chemical reactivity, bond types, and molecular polarity from the periodic table and elements.

Area of Emphasis Requirements

CHEM 030A	Introduction to Chemistry	4.0
BIOL 071	Human Anatomy	5.0
BIOL 072	Human Physiology	5.0
BIOL 074	General Microbiology	5.0

Area of Emphasis Requirements		19.0
Electives		2.0
General Education Requirements		39.0
Physical Activity		<u>1.0</u>
Total Units		61.0

GENERAL STUDIES WITH EMPHASIS IN MATHEMATICS FOR SECONDARY SCHOOL TEACHING – ASSOCIATE IN ARTS

Upon completion of the Associate in Arts degree in General Studies with a Emphasis in Mathematics for Secondary School Teaching, a student will be prepared to enter a BA or BS degree program at a four-year college or university with a major in mathematics. Further, the student will have completed education courses and Service Learning to be on track with the UC Cal Teach Program or a CSU teacher preparation program leading to a fifth-year Secondary School Credential Program. Students must complete all Area of Emphasis requirements with a 'C' grade or better.

Program Learning Outcomes:

- Apply problem-solving methods to application problems involving linear equations and inequalities.
- Categorize and distinguish the particular and special characteristics of linear, quadratic, absolute value, exponential, and logarithmic functions.
- Analyze polynomial functions of higher order, and apply to them the remainder theorem, factor theorem, and fundamental theorem of algebra and its corollaries to study their rational, irrational, and complex roots.
- Apply the principles of analytical trigonometry, including fundamental identities and formulas, in solving a variety of practical problems.
- Use matrix methods to solve problems that involve systems of three or more linear equations.
- Use the methods of calculus to solve problems involving rates of change, vectors, and interpretations of areas and volumes.
- Recognize and identify and best practices in teaching
- Assess the diversity of learners in a classroom and evaluate teaching methods that address the variety of ways that students learn.
- Distinguish between learner-centered and teacher-centered curricula and distinguish between classroom approaches that are inquiry-based (hands-on) and those that are informational.
- Describe how national and state standards in science and mathematics affect curricular design and testing.

Area of Emphasis Requirements

MATH 071	Calculus I with Analytic Geometry	5.0
MATH 072	Calculus II with Analytic Geometry	5.0
MATH 073	Multivariable Calculus	5.0
EDUC 012MS	Math and Science Future Teacher Seminar	3.0
EDUC 013MS	Math and Science Future Teacher Seminar II	3.0
EDIT 010	Computers and Digital Media in Education	3.0

Area of Emphasis Requirements		24.0
General Education Requirements		36.0
Physical Activity		<u>1.0</u>
Total Units		61.0

GENERAL STUDIES WITH EMPHASIS IN NATURAL SCIENCE – ASSOCIATE IN ARTS

The Associate in Arts Degree program in General Studies with Emphasis in Natural Science outlines a course of study that emphasizes breadth in the physical and life sciences. Students will learn to apply scientific methods to investigate both physical and biological aspects of the environment. Students completing this program will satisfy lower division science and general education requirements for CSU. Students must complete each required area of emphasis course with a grade of 'C' or better to be awarded the degree.

Program Learning Outcomes:

- Provide a course of study that allows students to complete the general education requirements needed to graduate from Evergreen Valley College with an associate in arts degree.
- Provide a course of study that emphasizes breadth in natural science, including biology, earth science, chemistry, and physics.
- Provide a course of study that allows students to transfer courses completed for the General Studies (Natural Science) program to any CSU or UC campus.
- Provide students with an opportunity to increase their long-term earning potential by obtaining an associate degree.

Area of Emphasis Requirements

Minimum 10 units of Life Science courses:	10.0
BIOL 025 Forensic Biology	
BIOL 062 Plants and Human Welfare	
BIOL 064 Marine Biology	
BIOL 065 Wildlife Biology	
BIOL 080 Biology Field Program	
ENVIR 010 Environmental Science*	

Minimum 8 units of Physical Science courses: 8.0

ASTRO 010 Introduction to Astronomy	
CHEM 015 Fundamentals of Chemistry	
ENVIR 010 Environmental Science*	
OCEAN 010 Descriptive Oceanography	
PHYS 002A Algebra/Trigonometry-Based Physics I	

**Note: ENVIR-010 can satisfy either Life Science or Physical Science requirement*

Area of Emphasis Requirements	18.0
Electives	2.0
General Education Requirements	39.0
Physical Activity	1.0
Total Units	60.0

GENERAL STUDIES WITH EMPHASIS IN SOCIOLOGY – ASSOCIATE IN ARTS

The Associate in Arts Degree in General Studies with Emphasis in Sociology is designed to provide students with an opportunity to study a broad range of topics within Sociology and related courses. Issues of Diversity, Equality, and Social Justice are core to this area of emphasis. While the courses that comprise this degree are all transferable,

students who intend to transfer should consult a counselor for information as to the requirements for their intended baccalaureate major. **Note:** Many CSUs have unique admissions and preparation-for-the-Core Requirements beyond minimum requirements. Students should consult the specific university catalog and website, www.assist.org, and an Evergreen Counselor for further information and assistance. Students wishing to earn an Associate of Arts Degree in General Studies with Emphasis in Sociology must complete each required area of emphasis course with a grade of 'C' or better.

Program Learning Outcomes:

- Provide core courses that meet transfer requirements to UC, CSU, and Private University for a Sociology Major.
- Provide varied multicultural traditions that honor and respect ethnic diversity.
- Provide students flexibility to accommodate diverse career goals and plans.

Area of Emphasis Requirements

ETH 010 Introduction to Ethnic Studies	3.0
MATH 063 Elementary Statistics	3.0
SOC 010 Introduction to Sociology	3.0
SOC 011 Social Problems	3.0

Select Two of the following three Courses 6.0

ETH 020 African American Culture	
ETH 030 Chicana/o Culture	
ETH 040 Vietnamese American Culture and Experience	

Area of Emphasis Requirements	18.0
Electives	2.0
General Education Requirements	39.0
Physical Activity	1.0
Total Units	60.0

GENERAL STUDIES WITH EMPHASIS IN WOMEN STUDIES – ASSOCIATE IN ARTS

The General Studies with Emphasis in Women's Studies AA degree is an interdisciplinary field of study that examines the experiences, concerns, and needs of women from a psychological, historical, social, political, economic and cultural perspective. The courses in the degree critically examine sex, gender, class, and feminist theory as they relate to women's complex roles in the family, work place, society, and the world. Students analyze how their lives are influenced by personal experience as well as by social, economic and political forces. Each course emphasizes community engagement, social activism and social justice. Students completing this program will satisfy lower division requirement necessary to pursue a Baccalaureate Degree in Women's Studies, Social Science, Psychology, or other related fields.

Students will be required to complete 18 units of core courses and 3 units of electives with a grade of 'C' or better in each course. In addition, students are required to complete a total of 40 hours of Service-Learning or community Service.

Program Learning Outcomes:

- Develop critical thinking and problem solving skills

- Define, compare and contrast gender, ethnic and age-based stereotypes in society, literature and the media.
- Discuss how past events, concepts and laws have influenced women’s consciousness
- Recognize and identify famous women as role models
- Compare and contrast images of women in distinct genres of literature
- Demonstrate the critical understanding of the contemporary structure of opportunities for women in technology
- Demonstrate a solid understanding of how to work effectively with both women and men in all fields of study
- Demonstrate a sense of cross-cultural awareness, sensitivity, civic and social responsibility and social justice

Area of Emphasis Requirements

EDIT 024	Women in Technology	3.0
ENGL 033*	Women in Literature	3.0
HIST 014*	Women in American History	3.0
PSYCH 025*	Psychology of Women; Global Perspective	3.0
SOC 011	Social Problems	3.0
WOMS 010*	Introduction to Women’s Studies	3.0

Approved Electives

AJ 123	Women and the Criminal Justice System	3.0
LIB 015	Electronic Research and the Internet	
PSYCH 026	Violence Against Women: Cross-Cultural Perspective	
PSYCH 096	Marriage, Family and Intimate Relationships	
PSYCH 100	Human Sexuality	
SERV 001	Introduction to Community Service-Learning	

Service-Learning/Community Service-Select One Option

Option #1: 40 hours of Service-Learning in core and elective courses.
 Option #2: 40 hours of Community Service. Service must directly address the real needs of young girls and or women in the community. Site must be approved and documented by EVC Center for Service-Learning and Public Service.

Area of Emphasis Requirements	18.0
Approved Electives	3.0
General Education Requirements	39.0
Physical Activity	1.0
Total Units	61.0

*Course meets Cultural Pluralism/Ethnic Studies graduation requirement.

HISTORY – ASSOCIATE IN ARTS FOR TRANSFER

The study of history as an academic discipline is serious and systematic. Historians analyze the events and processes of the past, both to gain more understanding of human nature, in any place and at any time, and to explain the distinctive dynamics of particular societies, usually in regional and chronological contexts. Moreover, we see historical study as a fundamental contribution to liberal, humanistic education and the development of critical intelligence. Hence our history courses are intended to strengthen critical skills students will use in any field of study and/or profession. In addition, studying the past will prepare students to better discharge the responsibilities of citizenship. Most careers in history require education beyond the associate degree and some require a graduate

degree. The most common career options for students with history preparation include: archivist, business person, diplomatic corps, government analyst, historian, journalist, lawyer, librarian, museum curator, park historian, professor, teacher and writer.

Students who complete the AA-T in History must have the following:

- Completion of 60 CSU transferrable semester units
- A minimum of at least 2.0 GPA in CSU transferrable courses (note that a higher GPA may be required in some institutions)
- Completion of at least 18 units in the major with a grade of “C” or better
- Certified completion of the CSU General Education-Breadth (CSU GE-Breadth) requirements, or completion of the Intersegmental General Education Transfer Curriculum (IGETC) requirements

Please Note: No more than 60 semester units are required for this degree and no additional requirements will be imposed by Evergreen Valley College.

Program Learning Outcomes:

- Read critically about topics in history thereby identifying problems, theses, arguments, evidence and conclusions.
- Write critically about topics in history thereby addressing problems, formulating theses, making arguments, analyzing and weighing evidence, and deriving conclusions.
- Think critically in speaking about topics in history, thereby articulating problems, stating theses, posing arguments, explaining evidence, and communicating conclusions.

Core Requirements

HIST 017A	History of the United States	3.0
HIST 017B	History of the United States	3.0

List A: 6 units from the following: 6.0

HIST 003A	World History to 1500	
HIST 010A	Development of Western Culture I	
HIST 003B	World History from 1500	
HIST 010B	Development of Western Culture II	

List B: one course from each group:

Group 1: one course (*if not used in List A*) 3.0

HIST 003A	World History to 1500	
HIST 003B	World History from 1500	
HIST 014	Women in American History	
HIST 021	African American History	
HIST 022	Mexican-American History	

Group 2: one course (*if not used in List A*) 3.0

ANTH 063	Introduction to Social and Cultural Anthropology	
ECON 010A	Principles of Macroeconomics	
ECON 010B	Introduction to Microeconomic Theory	
ETH 010	Introduction to Ethnic Studies	
GEOG 011	Introduction to Cultural Geography	
HIST 012	East Asian History	
HIST 014	Women in American History	
HIST 015	South Asian History Since 1947	
HIST 021	African American History	
HIST 022	Mexican-American History	
HIST 040	United States Military History	
HIST 045	Post-1945 America	

POLSC 001	Politics and Government in America
PSYCH 001	General Psychology
SOC 010	Introduction to Sociology
WOMS 010	Introduction to Women's and Gender's Studies

Major Requirements (<i>Core, List A, List B</i>):	18.0
Complete CSU GE-B or IGETC for CSU	37.0-39.0
Electives	<u>3.0-5.0</u>
Total Units	60.0

LIBERAL STUDIES WITH EMPHASIS IN ELEMENTARY TEACHER PREPARATION – ASSOCIATE IN ARTS

This AA Degree is designed primarily for students interested in teaching in elementary or middle school and transferring to SJSU. Alternatively, the AA Degree can be used for students wishing to transfer with a broad background in liberal education. Preparation for this degree includes 39 units of general education requirements. Students who choose Liberal Studies will meet *minimum* CSU transfer admission requirements, fulfill all lower division CSU GE, prepare for the baccalaureate major, and meet Evergreen Valley College's Associate in Arts Degree requirements. Students planning to transfer should meet with an Evergreen counselor to develop an educational plan. **Note:** Many CSUs have unique admissions and preparation-for-the-Core Requirements beyond minimum requirements. Students should consult the specific university catalog and website, www.assist.org. Students wishing to earn an Associate in Arts Degree in Liberal Studies with Emphasis in Elementary Teaching Preparation must complete each required area of emphasis course with a grade of 'C' or better.

Program Learning Outcomes:

- Provide the core requirements for transfer to SJSU as Liberal Studies major
- Offer students a degree option who desire a major in liberal education

Area of Emphasis Requirements

EDIT 010	Computers and Digital Media in Education	3.0
MATH 052	Math for Elementary Education (B4)	3.0
ENGL 001B	English Composition (C2)	3.0
MUSIC 099	Introductory Music (C1)	3.0
BIOL 020	Human Biology (B2 and B3)	4.0
CHEM 030A	Introduction to Chemistry OR	
CHEM 015	Fundamentals of Chemistry OR	
PHYS 001	Introductory Physics (B1 and B3)	3.0 – 4.0
FCS 070	Child Development OR	
PSYCH 092	Developmental Psychology (E)	3.0

Area of Emphasis Requirements	22.0
General Education Requirements	39.0
Physical Activity	<u>1.0</u>
Total Units	61.0-62.0

MATHEMATICS – ASSOCIATE IN SCIENCE FOR TRANSFER

Mathematics has been an important academic discipline in its own right for over 2500 years. In addition, mathematics provides the foundation for the study of physical, biological, health and computer sciences, engineering, statistics, economics, and many other disciplines. Graduates who complete a baccalaureate degree in Mathematics are prepared for employment as computer programmers, actuaries, data analysts, financial analysts, operations researchers, and educators. Others continue their studies and pursue advanced degrees in business, medicine, and law.

The Associate in Science in Mathematics for Transfer (AS-T) degree is intended for students who plan to complete a baccalaureate degree in Mathematics or a related field of study at a California State University. Students who complete this degree are guaranteed admission to the CSU system, *but not to a particular campus or major*. Students transferring to a CSU campus that accepts the Associate in Science in Mathematics for Transfer will be required to complete no more than 60 semester units after transfer to earn a baccalaureate degree.

Students who complete the AS-T in Mathematics must have the following:

- Completion of 60 CSU transferrable semester units
- A minimum of at least 2.0 GPA in CSU transferrable courses (note that a higher GPA may be required in some institutions)
- Completion of at least 18 units in the major with a grade of "C" or better
- Certified completion of the CSU General Education-Breadth (CSU GE-Breadth) requirements, or completion of the Intersegmental General Education Transfer Curriculum (IGETC) requirements

Please Note: No more than 60 semester units are required for this degree and no additional requirements will be imposed by Evergreen Valley College.

Program Learning Outcomes:

- Develop creative and logical solutions to various abstract and practical problems.
- Use mathematics to model and solve applied problems in engineering and science.
- Demonstrate didactic reasoning to construct elementary proofs to theorems.

Core Requirements

MATH 071	Calculus I with Analytic Geometry	5.0
MATH 072	Calculus II with Analytic Geometry	5.0
MATH 073	Multivariable Calculus	5.0

Students must also complete a minimum of six units from Group A and Group B, with at least three units (and possibly all six) selected from Group A.

Group A

MATH 078	Differential Equations	4.0
MATH 079	Linear Algebra	3.0

Group B

COMSC 072	Discrete Mathematics	4.0
COMSC 075	Computer Science I: Introduction to Program Structures	4.0

MATH 063	Elementary Statistics	3.0
PHYS 004A	General Physics	5.0
Major Requirements (<i>Core, List A, List B</i>):		21.0
CSU GE or IGETC for CSU		37-39
Transferable Electives		<u>2-10</u>
Total Units		60.0

MEDICAL ASSISTANT-FRONT OFFICE – CERTIFICATE OF ACHIEVEMENT

The Medical Assistant-Front Office certificate program requires a total of 22 units. Students will learn medical terminology, coding, and billing. Courses in communications, technology, and business are also part of the program. An internship is included to provide practical experience in the healthcare environment. After completion of the program, students can apply for positions such as, medical biller, patient specialist, or office assistant.

Program Learning Outcomes:

- Apply for employment as a Medical Office Assistant or an Office Assistant.
- Secure an entry-level position in an office environment.
- Manage the front office in the healthcare environment.
- Handle scheduling appointments.
- Read, interpret, and produce medical documents.
- Process insurance forms and claims.
- Handle patient concerns.
- Handle patients’ accounts using a medical billing application

ACCTG 101	Bookkeeping for Small Business	3.0
BIS 007	Business Writing Skills	3.0
BIS 012	Business Document Production	2.0
BIS 016	Medical Front Office Skills	2.0
BIS 017	Medical Terminology	1.0
BIS 102	Microsoft Excel	3.0
BIS 135	Human Relations in the Workplace	3.0
BIS 138	Work Experience	2.0
BIS 160	Computerized Medical Billing OR	
BIS 162	Medical Coding	2.0
BIS 161	Computerized Medical Office Procedures	1.0
Total Units		22.0

NURSING

The San José/Evergreen Community College District Governing Board approves the Nursing Program. The California State Board of Registered Nursing (P.O. Box 944210, Sacramento, California, 94244-2100; telephone: 916-322-3350; web site: www.rn.ca.gov), approves the Nursing Program and the Accreditation Commission for Education in Nursing (ACEN) formerly known as the National League for Nursing Accrediting Commission (3343 Peachtree Road NE, Suite 850, Atlanta, Georgia 30326; telephone: 1-404-975-5000; web site: www.acenursing.org) accredits the Nursing Program. Graduates of the program are eligible to apply to take the National Council’s Licensing Examination for Registered Nurses (NCLEX-RN). Nursing students have the same responsibilities and privileges as other college students. The Nursing Program encourages

male and female students from culturally diverse backgrounds to become eligible and apply for admission. Students are admitted annually with 50.0% enrolled fall semester and 50.0% enrolled spring semester.

Once admitted, the program is a full-time course of study that can be completed in two academic years. In the clinical education component, principles derived from academic study are applied to clinical nursing practice. Students are placed in local acute care hospital settings and community health care agency settings.

Nursing Program Information Workshops, conducted throughout the year, provide additional information about the Nursing Program and selection process. For more information regarding the nursing program, contact the Nursing Program Office at (408) 270-6448 (Sequoia S207) or access the Evergreen Valley College web site: <http://www.evc.edu/academics/divisions-departments/nursing-allied-health/nursing-overview> .

The San José/Evergreen Community College District reserves the right to add, amend or repeal any of the rules, regulations, policies and procedures consistent with applicable laws.

Program Purpose

The Evergreen Valley College Nursing Program provides an optimal learning environment that will enable the culturally diverse learner to begin the process of life-long learning as a registered nurse. By earning an Associate of Science Degree in Nursing (ADN), program graduates are eligible to apply to take the NCLEX-RN, and are prepared for entry-level practice into the profession of nursing.

Program Philosophy

Nursing faculty concurs with the mission, vision and values of Evergreen Valley College and share in the responsibility of the total educational program. Within this framework, nursing faculty has defined a unique program philosophy.

Faculty value each person as distinct individuals with rich cultural experiences and a unique potential for growth.

Faculty believe that the environment is a dynamic state where multi-faceted life experiences occur.

Faculty believe that health is an individual’s perception of his/her well-being and their ability to engage in life experiences. They believe that health is an evolving state that occurs on a health-illness continuum.

Faculty define nursing according to Nursing’s Social Policy Statement as: “The protection, promotion, and optimization of health and abilities, prevention of illness and injury, alleviation of suffering through the diagnosis and treatment of human response, and advocacy in the care of individuals, families, communities and populations” (American Nurses Association, 2010). In addition, faculty believe that nursing is a dynamic, collaborative process based on principles from the biological, physical and behavioral sciences which focuses on the diagnosis and treatment of actual or potential health problems.

Faculty believe that nursing supports human responses to health and illness by providing caring interventions that facilitate the client’s ability to achieve optimal quality of life or to die in comfort with dignity. Nurses engage in lifelong learning that utilizes critical thinking to support and advocate for culturally sensitive care within a community.

Faculty define learning as an interactive, meaningful process that integrates visual, auditory and kinesthetic learning styles. The goal of learning is to become a faster,

independent, creative, critical thinker. This is best achieved when the reflective learner develops reasoning abilities through self-assessment and self-awareness. Faculty believe in the capacity of the individual to learn, grow and change in a culturally diverse environment.

Support for student success in learning starts at the college level with a strong foundation in liberal arts and sciences. Faculty enhance student success by building on general education principles and empowering students in an environment where faculty function as teachers, mentors and supervisors.

References

American Nurses Association. (2010). Nursing's social policy statement: The essence of the profession. Silver Spring, MD: Nursesbooks.org.

Conceptual Framework

The unifying curriculum theme is an adaptation of the "Client Needs Model," a comprehensive framework for identifying nursing actions and competencies necessary for client care in a variety of settings and throughout the life span. This model relies on meta-paradigm beliefs about the person, environment, health and nursing as outlined in the program's philosophy.

The client, defined as an individual, family, group or community, is the primary focus of care. Client needs for care are organized around five (5) key concepts: a) Safe and Effective Care Environment; b) Health Promotion and Maintenance; c) Physiological Integrity; d) Psychosocial Integrity and, e) Professional Role of the Nurse. These five (5) concepts form the foundation for the program's student learning outcomes that culminate in the achievement of program outcomes. Critical thinking, nursing process, cultural sensitivity and caring are the processes that integrate the key concepts throughout the curriculum.

Program Outcomes

At the completion of the Nursing Program, the graduate competently performs in the following areas.

- A. Safe and Effective Care Environment
The graduate will:
 - i. Implement nursing care based on the nursing process to meet client needs throughout the life span in a variety of settings.
 - ii. Facilitate achievement of optimal client outcomes, through advocacy and delegation, by directing client care throughout the life span in a variety of settings.
- B. Health Promotion and Maintenance
The graduate will:
 - i. Act as a client advocate to promote access and enhance quality of care throughout the life span in a variety of settings.
 - ii. Utilize teaching/learning principles to promote optimal health throughout the life span in a variety of settings.
- C. Psychosocial Integrity
The graduate will:
 - i. Utilize therapeutic communication when providing client care throughout the life span in a variety of settings.
 - ii. Incorporate cultural sensitivity when providing client care throughout the life span in a variety of settings.
 - iii. Implement caring behaviors that support mental,

emotional and social well-being of the client throughout the life span in a variety of settings.

- D. Physiological Integrity
The graduate will:
 - i. Prioritize nursing care utilizing critical thinking skills based upon knowledge of biological sciences, pathophysiology, nutrition, pharmacology and growth and development to achieve maximum physiological integrity and reduce the risk potential for the client.
- E. Professional Role of the Nurse
The graduate will:
 - i. Utilize leadership and management principles, as a member of the health care team, in providing and delegating the delivery of client care.
 - ii. Demonstrate accountability for providing and evaluating nursing care that adheres to professional standards and incorporates legal and ethical responsibilities of the nurse.
 - iii. Demonstrate autonomy in recognizing one's own need for life-long learning, personal transformation and professional growth.

Summary Statement

Graduates of the Evergreen Valley College Associate of Science Degree Nursing Program function in the common domain of nursing practice after licensure. Completing program outcomes will enable graduates, following registered nurse licensure, to give direct patient care in collaboration with other health care professionals, and to perform independent, dependent and interdependent nursing interventions. Graduates are prepared and empowered to practice successfully within the rapidly changing health care systems of a multicultural society. Faculty recognize the role of the nurse is changing due to influences internal and external to the nursing profession. Therefore, graduates will continue learning through the process of experience and ongoing continuing education.

Application Procedure

For additional information, see Nursing Enrollment available at <http://www.evc.edu/academics/divisions-departments/nursing-allied-health/nursing-enrollment>

1. If you are not currently a student at either San José City College or Evergreen Valley College, you must submit a completed application for Evergreen Valley College to the Office of Admissions and Records. College applications are obtained from the Office of Admissions and Records or the college's web site: <http://www.evc.edu/current-students/admissions-and-records/apply-register-now>
2. Nursing Program online applications and instructions will be available during the October application cycle at <http://www.evc.edu/academics/divisions-departments/nursing-allied-health/nursing-enrollment>
3. The application period is during the month of October, for enrollment in the following academic year. Once selection is determined, the student will be assigned to begin nursing coursework in either the Fall or Spring semester. **In order to apply to the nursing program, the student must have completed the prerequisite courses.**

Eligibility Criteria for the Nursing Program:

- a. High School Graduation or Equivalent
- b. Human Anatomy with Lab* (Minimum 4.0 semester units)
- c. Physiology with Lab* (Minimum 4.0 semester units)
- d. Microbiology with Lab* (Minimum 4.0 semester units)
- e. ENGL 001A*
- f. Cumulative GPA of 2.5 or Higher

*With grade of 'C' or higher

If there are more qualified applicants than spaces available, selection will be as follows:

- Students who have met the eligibility requirements are put into the State Chancellor's Office validated "Model Prerequisites for Enrollment in ADN Programs" formula.
- This formula includes cumulative GPA (all colleges attended), prerequisite science GPA, science repeats (a Withdrawal, D or F will count as repetitions), and English 1A GPA. The formula generates a composite score (cut score), which will be utilized in the selection process.
 - Students who meet the EVC designated cut score, 75%, are randomly selected to take the TEAS test (see information below). The TEAS, the New TEAS or version VI, score requirement is 62% (adjusted composite score).
 - Pass TEAS → admitted to program
 - Not Pass TEAS → Remediation/Enrichment
- One year to complete plan successfully (including passing score on the TEAS)
- Admit students in the next possible enrollment cycle

Note: The Nursing Program uses the ATI Test for Essential Academic Skills (TEAS) to determine overall scholastic readiness for enrollment in the nursing program.

For information on the TEAS, please visit:

<https://www.atitesting.com/Solutions.aspx>

Entrance Requirements for Generic Selected Students

Students must submit a record of:

1. Basic Cardiac Life Support (BLS) for health care providers through the American Heart Association (CPR: cardiopulmonary-resuscitation).
2. Physical Examination with clearance of essential capabilities (including the ability to lift and carry 50lbs, push/pull 100 lbs., bend/stoop/squat/crawl)
3. Immunization Record including TB clearance (initial 2-step TB followed by an annual 1-step TB test)
4. Annual Criminal Background Check and urine drug screening (see policy for student background checks and urine drug screening)
5. All records must be submitted by the stated due date.

Tuition Fees

Resident students pay California Community College enrollment fees each semester (approximately \$1,776 dollars both years). Non-resident students pay enrollment fees as established by the District.

Approximate Costs Related To The Program

Expense	Approximate Cost (both years)
Uniforms, laboratory coat, shoes, books, and supplies	\$1,200.00
Tuition for 4 semesters	\$1,776.00
ATI testing and online resources	\$656.00

CPR training, mask fitting and background and drug screening	\$258.00
Physical exam and immunizations	Variable costs
Student supply kits	\$105.00
Immunization tracker	\$35
Total	\$4,030.00

Students are responsible for their own meals, housing and transportation to campus and assigned clinical agencies. For students who qualify for financial aid, financial aid and loan applications are available at the Financial Aid Office.

Program Enrollment And Progression

Enrollment in nursing courses is limited to students who have been admitted to the Nursing Program. Once enrolled, students must complete each course in the nursing program with a grade of 'C' or higher to progress through the program.

Definition Of A College Unit

The Nursing Program abides by the college definition of a "unit." This definition is: "A unit is defined as the course credit equal to approximately one attendance hour per week of lecture-recitation, seminar, or other approved course activity throughout a semester. A unit of credit may also be granted for approximately three (3) hours per week of laboratory (clinical). The following terms are synonymous: unit, semester unit, semester hour, credit, and credit hour."

Nursing Major Coursework

Pre-Nursing Course Prerequisites:

All completed with a grade 'C' or better (must be completed prior to applying to the nursing program)

BIOL 071*	Human Anatomy	5.0
BIOL 072*	Human Physiology	5.0
BIOL 074*	General Microbiology	5.0
*Will accept a minimum of 4.0 semester units if taken at another college		
ENGL 001A	English Composition	3.0

Note: Nursing will not accept international coursework for the prerequisite classes

Course Supportive of the Major (required for graduation and licensure):

PSYCH 001	General Psychology	3.0
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(recommended prior to enrollment in the nursing program)

Core Requirements: All completed with a grade 'C' or better

NURS 001	Fundamentals in Nursing	9.5
NURS 002A	Basic Medical-Surgical Nursing	5.0
NURS 002B	Maternity Nursing	4.0
NURS 003	Advanced Pediatrics/Medical-Surgical Nursing	8.5
NURS 004	Advanced Medical Surgical/Geriatric/Mental Health/Leadership and Management Nursing	10.0

General Education Courses:

- Area A: Communication Studies (*Recommend Oral Communications 20*) 3.0
Written Communication-ENLG-001A (*met by Pre-nursing prerequisite course*)
- Area B: Science with lab (*met by prerequisite course*)
- Area C: Fine Arts (*Recommend Ethnic Studies 011*) 3.0

Humanities (<i>Recommend English 001B</i>)	3.0
Area D: HIST 17A and 17B OR HIST-001 and POLSC 001	6.0
Area E: Lifelong Learning and Self Development (<i>met by Nursing curriculum</i>)	
Graduation Requirements:	
Physical Activity: PE or DANCE	1.0
Cultural Pluralism/Ethnic Studies (can be completed in Area C or D)	
Math competency: MATH 013 OR 014 or Equivalent OR Intermediate Algebra Competency Exam	
Nursing Major Courses	37.0
Pre-requisite Courses	15.0-18.0
Course Supportive of the Major	3.0
General Education Courses	15.0
Physical Activity:	1.0
Total Program Units	71.0–74.0

Note: For licensure, the board of Registered Nursing requires one of the following courses to meet Societal/Cultural Pattern: ETH 010, 011, 020, 030, 035, 040, 042, SOC 010, 011, ANTH 063 OR Equivalent

Note for students with Bachelor's degree: SB 1393: students who have earned a Baccalaureate or higher degree from an accredited college* are only required to complete the coursework required for the registered nursing program, including prerequisites and nursing coursework. These students are not required to complete any other courses to meet graduation requirements for the associate degree. However, to apply for licensure through the CA Board of Registered Nursing (BRN), additional coursework may be required.

EVC nursing program graduates are required to complete 3.0 units of each of the following courses or equivalent courses:

General Psychology (Psych 001), Oral (verbal) communications (COMS 010,020,035,040,045) and Societal/Cultural Pattern (ETH 010, 011, 020, 030, 035, 040, 042, SOC 010, 011, ANTH 063 OR Equivalent).

*Accredited College: Bachelor's degree obtained from a college or university accredited by one of the following regional accrediting bodies: (1) Western Association of Schools and Colleges (WASC); (2) Middle States Association of Colleges and Schools (MSA); (3) New England Association of Schools and Colleges (NEASC); (4)North Central Association of Colleges and Schools (NCA); (5) Northwest Commission on Colleges and Universities (NWCCU) or (6) Southern Association of Colleges and Schools (SACS).

Nursing Courses Not Part of Nursing Major

NURS 131A	Nursing Resource Center, Lab 1	1.0
NURS 131B	Nursing Resource Center, Lab 2	1.0
NURS 132A	Nursing Resource Center, Lab 3	1.0
NURS 119	Pathophysiology for Allied Health	3.0
NURS 120	Pharmacology in Nursing	3.0

Advanced Placement

Students with previous nursing education may apply for advanced placement. This includes both students who are

transferring from other state approved pre-licensure Nursing Programs and California Licensed Vocational Nurses (LVNs). LVNs are eligible for advanced placement into the Nursing Program either as generic students or 30-Unit Option students. **All advanced placement students are admitted on a space available basis**, and are selected in the following order: students returning from military service; students returning to the nursing program (after one program separation); LVN advanced placement students; students transferring from another nursing program in good academic standing; foreign trained nurses needing CA BRN remediation; and students transferring from another nursing program with a failing grade.

Advanced Placement: Transfer students

Students transferring from other nursing programs who request advanced placement must meet all eligibility criteria for the Nursing Program, including achieving a qualifying score on the Test for Essential Academic Skills (TEAS). Advanced placement students must meet all nursing Core Requirements and general education requirements in order to receive the Associate of Science Degree in Nursing. In order to be eligible, transfer students must:

- Have completed first semester (Nursing Fundamentals)
- It has been no longer than 2 semesters that you have been out of nursing school (1 year).

Write us a letter explaining why you wish to transfer into our program to:

Adrienne Burns
Evergreen Valley College
Nursing Program
3095 Yerba Buena Road,
San Jose, CA 95135

Please be sure to include a valid phone number and email address in your correspondence.

1. Include in your letter all of your nursing school official transcripts
2. Include in your letter a copy of all course descriptions for your nursing classes (you can usually obtain this from the schools website)
3. Once we receive your information, we will send you a confirmation letter of receipt and add you to the list of transfer requests.
4. Please indicate if you are an international student in your letter. This will help us prepare you for the requirements through Admissions.
5. If there is an opening, you will be contacted at the number you provide to us or by email.

Advanced Placement: LVN To RN Bridge Program

LVNs who request advanced placement as generic students must meet the same eligibility criteria for the Nursing Program generic students (see below). You cannot apply for the LVN to RN Bridge Program unless you currently have your California LVN license at the time of your application. In addition you must complete the following:

1. Complete an EVC application.
2. Complete the Nursing application: available at <http://www.evc.edu/academics/divisions-departments/nursing-allied-health/nursing-enrollment> during the month of October.
3. Completion of the N001 Fundamentals of Nursing

- Challenge Exam with a 'C' or better (offered in December)
- Achieve qualifying cut score on the ATI Test for Essential Academic Skills (offered in January-March)
 - Completion of a Role Transition Course or its equivalent
 - LVNs will be randomly selected for open spaces

LVN to RN Bridge Coursework

Prerequisites: All completed with a grade 'C' or better

BIOL 071*	Human Anatomy	5.0
BIOL 072*	Human Physiology	5.0
BIOL 074*	General Microbiology	5.0

***will accept a minimum of 4.0 semester units**

ENGL 001A	English Composition	3.0
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Course Supportive of the Major (required for graduation and licensure):

PSYCH 001	General Psychology	3.0
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(Recommended prior to enrollment in the nursing program)

Nursing Major Courses

First Semester:

NURS 002A	Basic Medical-Surgical Nursing	5.0
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OR*

Second Semester:

NURS 003	Advanced Pediatrics and Medical-Surgical Nursing	8.5
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Third Semester:

NURS 004	Advanced Medical-Surgical/Geriatric/ Mental Health/Leadership and Management Nursing	10.0
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*Depending on which Role Transition Course is available

General Education Courses:

Area A:	Communication Studies (<i>Recommend Oral Communications 20</i>)	3.0
	Written Communication-ENLG-001A <i>(met by Pre-nursing prerequisite course)</i>	

Area B: Science with lab (*met by prerequisite course*)

Area C:	Fine Arts (<i>Recommend Ethnic Studies 011</i>)	3.0
	Humanities (<i>Recommend English 001B</i>)	3.0

Area D:	HIST 17A and 17B OR HIST-001 and POLSC 001	6.0
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Area E:	Lifelong Learning and Self Development <i>(met by Nursing curriculum)</i>	
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Graduation Requirements:

Physical Activity: PE or DANCE	1.0
Cultural Pluralism/Ethnic Studies (can be completed in are C or D)	
Math competency: MATH 013 OR 014 or Equivalent OR Intermediate Algebra Competency Exam	

Nursing Major Courses	27.5
Pre-requisite Courses	19.5
Course Supportive of the Major	3.0
General Education Courses	15.0
Physical Activity:	1.0
Total Program Units	54.0-57.0

Note: For licensure, the board of Registered Nursing requires one of the following courses to meet Societal/Cultural Pattern: ETH 010, 011, 020, 030, 035, 040, 042, SOC 010, 011, ANTH 063 OR Equivalent

LVN 30-Unit Option

A 30-Unit Option is available for California LVNs that fulfills the California State Board of Registered Nursing requirements. (See Section 1429 of Title 16 – California Code of Regulations Nurse Practice Act.) Courses in the 30-Unit Option are completed in addition to the courses required for Vocational Nurse Licensure. Section 1429 provides that no more than thirty (30) semester units in nursing and related science subjects can be required. LVNs choosing the 30-Unit Option are not required to meet course recency requirements or to complete college placement testing. Following completion of the designated ten (10) units of Human Physiology and General Microbiology, with a 'C' or better, LVNs apply to complete the remaining twenty (20) units in the Nursing Program. LVNs choosing the 30-Unit Option must complete a form stating this intention prior to commencing coursework. 30-Unit LVNs are admitted on a space available basis only. LVNs choosing the 30-unit option must complete the following:

- Complete an EVC application.
- Complete the Nursing application: available at <http://www.evc.edu/academics/divisions-departments/nursing-allied-health/nursing-enrollment> during the month of October.
- Completion of the N001 Fundamentals of Nursing Challenge Exam with a 'C' or better (offered in December)
- Achieve qualifying cut score on the ATI Test for Essential Academic Skills (offered in January-March)
- Completion of a Role Transition Course or its equivalent
- LVNs will be randomly selected for open spaces

LVN 30-Unit Option Coursework

Prerequisites: No recency required

BIOL 072	Human Physiology	5.0
BIOL 074	General Microbiology	5.0
	Role Transition or equivalent	1.5

Nursing Major Courses

First Semester:

NURS 003	Advanced Pediatrics and Medical-Surgical Nursing	8.5
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Second Semester:

NURS 004	Advanced Medical-Surgical/Geriatric/ Mental Health/Leadership and Management Nursing	10.0
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Unit Breakdown

Prerequisite Course	11.5
Nursing Major Courses	18.5
Total Units	30.0

Following completion of the 30-Unit Option, LVNs are eligible to apply to take the NCLEX-RN. Completing the 30-Unit Option does not constitute graduation from the Nursing Program. In addition, completing the 30-Unit Option may limit the ability to gain licensure endorsement in other states or impact employment mobility in some health care institutions.

Policy For Impaired Nursing Students (Emotional Illness And Substance Abuse)

A. Purpose

Recognize inappropriate behaviors and performance, which may be attributed to substance abuse and/or emotional illness.

B. Applicability

Students seeking enrollment or currently enrolled in Evergreen Valley College Nursing Program.

C. Impaired Nursing Student Statement

Client safety is an overriding principle in the delivery of health care. For the health care professional to provide safe care, the health care professional must be able to make sound judgments. Thought processes and decision making can be adversely affected by excessive stress, and poor mental health and substance abuse. Impaired by the aforementioned factors, the health care professional can easily make unsafe decisions and thereby jeopardize client safety.

As health care professionals, we recognize that excessive stress, poor emotional and physical health and substance abuse are conditions that can be treated by early recognition and rehabilitation. Rehabilitated students are encouraged to re-enter the education process for successful completion of a health care program.

The student whose thought processes and decision-making ability is impaired by excessive stress, and/or poor emotional health and/or the abuse of substances will be considered to be unsafe to provide health care services and will be removed from the clinical setting. The student's performance will be subject to faculty review and possible dismissal from the program. In addition, the student will be counseled about the importance of seeking voluntary aid for such conditions that could, if left unattended, lead to disciplinary action and may prevent them from being licensed to practice nursing in the State of California.

D. Program Philosophy

The philosophy of the Evergreen Valley College Nursing Program concurs with the California State Board of Registered Nursing in relation to nursing students who are impaired by substance abuse or emotional illness. The Nursing Program's philosophy is:

1. We recognize that substance abuse and emotional illness are treatable diseases.
2. We believe that personal and health problems arising from these diseases can affect academic and clinical performance, making the student a danger to self and clients.
3. We believe that human beings can learn and change behaviors and that nursing students with diseases can be encouraged to seek help in order to recover.
4. We believe that the nursing student has the primary responsibility to seek treatment.
5. We are committed to confidential handling of recognition and treatment of these diseases.

E. Signs and Symptoms of Impaired Nursing Students

Signs and symptoms of nurses abusing alcohol, drugs, or experiencing emotional impairment include, but are not limited to, the following:

Lack of enthusiasm-increasing absenteeism, arriving late and wanting to leave early, frequently requesting time off, taking extended meal and coffee breaks and refusing difficult or additional assignments; odor of alcohol or marijuana on breath; slurred or incoherent speech; chronic drowsiness and /or sleepiness; Tremors of hands; disorientation; unusually aggressive behavior; unexplained work errors; lack of coordination;

unreasonable resentment, suspiciousness, overreaction to criticism; controlling behavior and inflexibility; isolation and withdrawal; irritability and mood swings; blaming, defensiveness and frequent conflicts; difficulties with interpersonal relationships; forgetfulness; frequent trips to the bathroom; repeated use of breath mints or mouth wash; deteriorating appearance; blackouts; unexplained nausea and vomiting or diarrhea; tremors, anxiety and "spaciness"; hangovers; unexplained diaphoresis; Unexplained sniffing, sneezing, watery eyes; unusual, unexplained weight loss or gain; frequent complaints of illness or injury; excessive bruising on arms, ankles, and hands.

F. Rehabilitation

It is the responsibility of the student to provide the Dean of Nursing and Allied Health with sufficient evidence of rehabilitation before reinstatement will be considered.

1. Evidence of completion of an accepted/ recognized inpatient or outpatient diversion program.
2. Letters from recognized recovery programs attesting to current sobriety and the length of time of sobriety if there has been a history of drug and/or alcohol abuse.
3. A current mental status examination by clinical licensed psychologist or psychiatrist. The evaluation should address the likelihood of similar acts in the future, and should speak to the suitability of the student nurse for the profession.

G. Reinstated Students

Students who are considered for readmission to the Nursing Program must supply sufficient evidence from the recognized program or individual supporting continued compliance with the treatment plan. This evidence must be given to the Dean of Nursing and Allied Health before the student will be allowed to re-enter the program. Program re-entry will be on a space available basis only.

Americans With Disabilities Act Compliance Statement

The nursing program does not discriminate against qualified individuals with disabilities and complies with the 1990 Americans with Disabilities Act (ADA).

Disability is defined in the Act as:

1. Physical or mental impairment that substantially limits one or more of the major life activities of such individuals.
 2. A record of such impairment.
 3. Being regarded as having such impairment.
- For the purpose of Nursing Program compliance, a qualified individual with a disability is one who, with or without reasonable accommodation or modification, meets the essential requirements of Evergreen Valley College Nursing Program. These requirements are described in the following: Essential Capabilities and Functional Requirements.

A. Essential Capabilities

Evergreen Valley College Nursing Program students must have abilities and skills of five (5) varieties: Cognitive-Conceptual, Behavioral and Social Attributes, Communication, Sensory, and Motor. A student should be able to perform in a reasonably independent manner without the use of a surrogate. To function effectively

and safely the student must be able to do the following:

Cognitive-conceptual: Critical thinking and clinical judgment are essential abilities of the professional nurse. These abilities include measurement, calculation, reasoning, analysis and synthesis.

Behavioral And Social Attributes: Students must possess the emotional stability required for full utilization of their intellectual abilities. The prompt completion of all responsibilities inherent to the diagnosis and care of patients and the development of mature, sensitive and effective relationships with patients are essential. Students must be able to tolerate physically taxing workloads and to multitask effectively and efficiently under stress. They must be able to adapt to changing environments; to display flexibility and learn to function effectively, despite the uncertainties inherent in the clinical situations; to interact and establish rapport with individuals, families, and groups from a variety of social, emotional, cultural, and intellectual backgrounds. Compassion, integrity, honesty, concern for others, interpersonal skills, interest and motivation are all personal qualities that should be demonstrated throughout the education process.

Communication: Students must be able to speak, to hear and to observe patients in order to elicit information, describe changes in mood, activity and posture, and perceive nonverbal communications. Students must be able to communicate effectively and sensitively with patients, colleagues, and other personnel. Communication includes not only speech but also reading and writing. Students must be able to communicate in English effectively and efficiently in oral and written form with all members of the health care team, patients, and families. (See specific Functional Requirements.)

Sensory: Students must be able to observe a patient accurately. Observation necessitates the functional use of the senses of vision, smell, touch, hearing and somatic sensation. (See specific Functional Requirements.)

Motor: Students should have sufficient motor function to elicit information from patients by palpation, auscultation, percussion and other assessment techniques. Students should be able to execute gross and fine motor movements required to provide general care and emergency treatment of patients. Many actions require coordination of both gross and fine muscular movements, equilibrium and functional use of the senses of touch and vision. (See specific Functional Requirements which are based on community standards of health care agencies.)

These capabilities must be demonstrated in the clinical, laboratory, and theory (classroom) interactions and evaluations.

B. Functional Requirements

The Functional Requirements described below are representative, but not limited, to those that must be met by an individual to successfully perform the essential functions of a professional nurse.

Communication Ability:

1. Communicate effectively and efficiently in English with patients, families, and other health care providers, both verbally and in writing. (Example: explain treatment procedures, teach patients and families, and document in charts.)
2. Effectively adapt communication for intended

audience.

3. Interact, establish rapport with individuals, families, and groups from a variety of social emotional, cultural and intellectual backgrounds.
4. Assume the role of a health care team member.
5. Function effectively under supervision.

Sensory Capability:

1. Coordinate verbal and manual instruction.
2. Assess a patient from 10 feet away to observe posture and response to treatment.
3. Respond to a timer, alarm or cries for help.
4. Auditory, visual, and tactile ability sufficient to assess a patient status and perform treatments. (Example: color changes in skin, hear heart and lung sounds.)

Motor Capability:

1. Move from room to room and maneuver in small spaces.
2. Transfer patients who may require physical assistance.
3. Guard and assist patients with ambulation.
4. Perform exercise techniques, including applying resistance during exercise.
5. Lift and carry up to 50 pounds, and exert up to 100 pounds force or push/pull.
6. Squat, crawl, bend/stoop, reach above shoulder level, use standing balance, and climb stairs
7. Use hands repetitively; use manual dexterity.
8. Perform CPR.
9. Travel to and from academic and clinical sites.
10. Able to spend 75.0% to 90.0% of clinical time standing/walking.

Policy for Student Criminal Background Checks And Urine Drug Screening

A. Policy Statement

All students entering the nursing program are required to obtain a criminal background check and urine drug screen.

B. Purpose

The 2004 Manual for Hospitals published by the Joint Commission on Accreditation of hospitals and Healthcare Organizations (JCAHO), the major accreditation body for hospitals, requires that all staff members, student, faculty and volunteers meet standards relating to criminal background checks and freedom from drugs.

C. Policy

Overview: Students are responsible for costs associated with the criminal background check and drug screen. Students must further agree that all results are available to the nursing program and the clinical sites associated with the program. The program is responsible for ensuring that students comply with individual hospital policy regarding disclosure of results. Should a clinical agency refuse to place a student based on the outcome of either the background check or drug screen, the program has no responsibility for arranging an alternative clinical placement.

1. Criminal Background Check:

Upon acceptance in the nursing program, students must clear a criminal background check. Failure to complete this process will result in dismissal from the program. If the background check indicates criminal behavior, the student may be dismissed from the program.

2. Urine Drug Screen:
The nursing program maintains a no tolerance policy regarding substance abuse. All students must clear a urine drug test. Failure to undergo this test will result in dismissal from the program. If the drug screen comes back diluted the student will be allowed one (1) retest. If the student fails the second test, the student will be dismissed from the program.

Policy for Students Returning to the Program

A. Policy Statement:

The policy is intended to clarify the number of times a student can return to the EVC Nursing program. Students can request to return to the nursing program one (1) time following program separation due to a course failure or course withdrawal from any nursing major course, in order to be eligible to return to the program.

In addition, this policy clarifies the maximum length of time allowed to complete the nursing courses. All nursing courses must be completed within three years of the original program entry date. Students who separate from the nursing program must return to the program within two semesters of their separation semester, in order to be eligible to return to the program.

B. Purpose: To establish guidelines for students requesting to return to the EVC Nursing Program

1. Definition of Returning Student

A "returning student" is defined as a student who has at any time been enrolled in one (1) or more courses in the Evergreen Valley College Nursing Program. All students who have enrolled in an EVC nursing major course and attended class at least one (1) day will be considered an "enrolled" student.

2. Exception

Please note the following exception:

- a. Students who leave the program because of being called to active military duty are able to return to the program without it counting as a separation.

3. Procedure

- a. Students eligible to return to the program must complete the "Request to Return to the Nursing Program" form available at <http://www.evc.edu/academics/divisions-departments/nursing-allied-health/nursing-enrollment>
- b. Requests must be submitted by the posted due dates.
- c. Students eligible to return must demonstrate written evidence of compliance with faculty recommendations for remediation. Faculty and Dean will evaluate each student's request to return on an individual basis.
- d. Students eligible to return will be **selected on a space available basis** according to the following priority:
 - i. Students continuing in the program
 - ii. Students returning from active military duty
 - iii. Students granted a leave if the reasons for their leave have been resolved
 - iv. Students who request to return to the nursing program following program separation with evidence of following through on the recommended plan for academic remediation (if applicable).

- iv. LVNs entering the LVN to RN Bridge Program
- vi. Students requesting to transfer from another nursing program who have a 'C' or higher grade in every nursing major course and meet all eligibility requirements of the EVC Nursing Program (Transfer students who have been previously enrolled in the EVC Nursing Program and have two (2) course failures in the EVC Nursing Program are not eligible to apply for transfer back to the program.)

- vii. Foreign educated nurses needing CA BRN remediation

- viii. Students requesting to transfer from another nursing program who leave that program with a failing grade in a nursing major course and meet all eligibility requirements of the EVC Nursing Program (Transfer students who have been previously enrolled in the EVC Nursing Program and have two (2) course failures in the EVC Nursing Program are not eligible to apply for transfer back to the program.)

For full list of nursing policies, refer to the EVC website: <http://www.evc.edu/academics/divisions-departments/nursing-allied-health/nursing-overview>

Further Information

For further information about the Nursing Program contact the Nursing Program Office at (408) 270-6448 (Sequoia 207) or access the Evergreen Valley College web site: www.evc.edu for specific questions on financial aid and counseling/testing.

PARALEGAL STUDIES

The paralegal profession is one of the fastest growing job fields in the nation. Paralegals hold increasingly important and high paying positions at large and small law firms, corporate legal departments, government agencies, banks, real estate and insurance companies, nonprofit organizations, and Silicon Valley startups. Evergreen Valley College's Paralegal Studies Program prepares graduates to work as a "paralegal" or "legal assistant" under California law (Business and Professions Code Section 6450). A student will qualify for an Associate degree by completing all core requirements with a grade of "C" or better in addition to the college's general education requirements. The Paralegal Studies Certificate requires students to complete 24 units of classes, preparing graduates for employment as paralegals or legal assistants.

Program Learning Outcomes for the Paralegal Associate Degrees and Certificate:

- Demonstrate a proficient knowledge of the various areas of law and their importance
- Describe the legal profession's basic ethical guidelines and apply them in hypothetical situations
- Demonstrate effective legal research skills by selecting and utilizing appropriate sources of law
- Prepare legal research memoranda and other documents commonly used by attorneys
- Use legal terminology capably in an appropriate context

CHAPTER 4: DEGREES AND CERTIFICATES

PARALEGAL STUDIES – ASSOCIATE IN ARTS

LA 010	Introduction to Law, Legal Research, the Constitution, and Ethics	3.0
LA 071	Legal Research	3.0
LA 072	Advanced Legal Analysis and Writing	3.0
	Legal Specialty Courses	15.0
	Core Requirements	24.0
	G.E. Requirements	39.0
	Total Units	63.0

PARALEGAL STUDIES – ASSOCIATE IN SCIENCE

LA 010	Introduction to Law, Legal Research, the Constitution, and Ethics	3.0
LA 071	Legal Research	3.0
LA 072	Advanced Legal Analysis and Writing	3.0
	Legal Specialty Courses (see list below)	15.0
	Core Requirements	24.0
	Electives	12.0
	G.E. Requirements	24.0
	Total Units	60.0

PARALEGAL STUDIES – CERTIFICATE OF ACHIEVEMENT

LA 010	Introduction to Law, Legal Research, the Constitution, and Ethics	3.0
LA 071	Legal Research	3.0
LA 072	Advanced Legal Analysis and Writing	3.0
	Legal Specialty Courses (see list below)	15.0
		24.0

Legal Specialty course list

LA 011	Overview of Contracts, Property, and Tort Law
LA 014	Civil Litigation
LA 016	California Courts and Litigation Practice
LA 033	Tort and Personal Injury Law
LA 036	Real Estate and Property Law
LA 038	Family Law
LA 040	Criminal Law
LA 042	Corporate and Partnership Law
LA 044	Intellectual Property Law
LA 046	Immigration Law
LA 050	Constitutional Law

PATIENT COMMUNITY NAVIGATOR – CERTIFICATE OF SPECIALIZATION

The Certificate in Patient Community Navigator is designed to train individuals to deal with patients in a healthcare environment or clinical setting. The objective of the patient navigator is to communicate effectively in a variety of situations, so they can help patients and their families obtain the health care services they need in an efficient manner. Patient Navigators help patients overcome the barriers that keep them from getting timely care. Students will learn to handle healthcare issues that patients encounter. The Patient Navigator will use professionalism and motivational interviewing skills to clarify and communicate the needs of the patients.

Program Learning Outcomes:

- Demonstrate effective written and oral communication necessary for patient navigation.
- Interpret and explain medical forms to assist patients with understanding the forms.
- Interpret and clarify healthcare issues in order to help patients make informed decisions.
- Assist patients with challenging healthcare processes.
- Apply the practices of a patient community navigator in a healthcare environment.

Core Requirements

BIS	007	Business Writing Skills	3.0
BIS	017	Medical Terminology	1.0
BIS	135	Human Relations in the Workplace	3.0
BIS	160	Computerized Medical Billing	2.0
FCS	138	Work Experience	2.0

Recommended Courses

BIS	109	Microsoft Office
BIS	162	Medical Coding
COUNS	015	Blueprint for Success
ETH	010	Introduction to Ethnic Studies
FCS	050	Life Management
PSYCH	060	Personal Growth and Adjustment

Total units 11.0

PHYSICS – ASSOCIATE IN SCIENCE FOR TRANSFER

The study of Physics includes all of the energy interactions in the physical world. This study includes the smallest particles in the atom to the electrical energy flowing through our household appliances to the movements of the planets in our solar system, and even to the heat and light generated from the stars. Much of the course of study at Evergreen Valley College is devoted to the energy relationships of everyday life, such as heat, light, electricity, mechanical energy, sound, and magnetism. The Theory of Relativity and Quantum Mechanics are also discussed.

A graduate with this degree usually will transfer to a four-year college to eventually earn a Bachelor's Degree. Graduates with this degree may work in technical fields in business and industry. Further work toward a Masters or PhD in Physics or Astronomy is preferable if a student plans to teach or work in research. Earning an Associate of Science in Physics for Transfer will guarantee a student admission to a CSU campus, but not necessary to a particular campus. Please see the Associate Degree for Transfer in the Evergreen Valley College catalog.

Note: High School Preparation: Courses in physics, chemistry, four years of high school mathematics are required. If this preparation is not complete, Evergreen Valley College offers courses to meet this preparation. If the preparation is not complete, it may take more than two years to complete the AS-T degree.

Students who complete the AS-T in Physics must have the following:

- Completion of 60 CSU transferrable semester units
- A minimum of at least 2.0 GPA in CSU transferrable courses (note that a higher GPA may be required in some institutions)

- Completion of at least 18 units in the major with a grade of “C” or better
- Certified completion of the CSU General Education-Breadth (CSU GE-Breadth) requirements, or completion of the Intersegmental General Education Transfer Curriculum (IGETC) requirements

Please Note: No more than 60 semester units are required for this degree and no additional requirements will be imposed by Evergreen Valley College.

Program Learning Outcomes:

- Identify all of the physical quantities in a problem, and define the steps to model and solve real world problems
- Use inductive and deductive reasoning to analyze evidence to arrive at logical conclusions
- Demonstrate proficiency in assembly of experimental apparatuses to conduct and analyze measurements of physical phenomena
- Assess experimental uncertainty to aid in making meaningful comparisons between experiment and theory

Required Core

PHYS 004A	General Physics	5.0
PHYS 004B	General Physics	5.0
PHYS 004C	General Physics	5.0
MATH 071	Calculus I with Analytic Geometry	5.0
MATH 072	Calculus II with Analytic Geometry	5.0
MATH 073	Multivariable Calculus	5.0

Core requirements	30.0
IGETC for CSU	37.0
Possible doublecounted units	7.0
Total Units	60.0

PSYCHOLOGY – ASSOCIATE IN ARTS

This major prepares students to transfer to California State Universities and University of California campuses for those interested in a Bachelor’s Degree in Psychology. In addition, the psychology major will provide a background for further study and careers in psychology, education, business, law, law enforcement, other social sciences, medicine and the allied health field. A grade of ‘C’ or better is required in each major course.

Program Learning Outcomes:

- Read critically about topics in psychology thereby identifying problems, theses, arguments, evidence, and conclusions.
- Write critically about topics in psychology thereby addressing problems, formulating theses, making arguments, analyzing and weighing evidence, and deriving conclusions.
- Think critically in speaking about topics in psychology thereby articulating problems, stating theses, posing arguments, explaining evidence and communicating conclusions.

Core Requirements

MATH 063	Elementary Statistics	3.0
PSYCH 001	General Psychology	3.0
PSYCH 018	Introduction to Research Methods	3.0
PSYCH 030	Introduction to Biological Psychology	3.0

Major Electives (6 units from the following)	6.0
PSYCH 020	Psychology of Stress Reduction

PSYCH 025	Psychology of Women: Global Perspective
PSYCH 026	Violence against Women: Cross-Cultural Perspective
PSYCH 060	Personal Growth and Adjustment
PSYCH 092	Developmental Psychology
PSYCH 096	Marriage, Family and Intimate Relationships
PSYCH 099	Abnormal Psychology
PSYCH 100	Human Sexuality

Recommended Electives from Related Disciplines 3.0

ANTH 063	Introduction to Social and Cultural Anthropology
BIOL 020	Human Biology
BIOL 021	General Biology
BIOL 071	Human Anatomy
SOC 010	Introduction to Sociology
SOC 011	Social Problems

Core Requirements	12.0
Major Electives	6.0
Recommended Electives	3.0
General Education Requirements	39.0
Total Units	60.0

PSYCHOLOGY – ASSOCIATE IN ARTS FOR TRANSFER

Psychology is the scientific study of human and animal behavior and mental processes, including cognition, emotion, sensation, perception and interaction. In pursuing the Associate in Arts in Psychology for Transfer degree, students acquire skills in research, information gathering, and analytic thinking. Students majoring in psychology develop critical thinking, problem solving and written and verbal communication skills. As psychology majors, students have learning opportunities that are relevant to many types of careers, including business, education, government, nonprofit organizations and within health and human services. The Associate in Arts in Psychology for Transfer degree will be awarded upon completion of coursework totaling 60 California State University (CSU) transferable units including the Core Requirements and the Intersegmental General Education Transfer Curriculum (IGETC) or California State University General Education (CSUGE) requirements with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of ‘C’ or better.

Students who complete the AA-T in Psychology must have the following:

- Completion of 60 CSU transferrable semester units
- A minimum of at least 2.0 GPA in CSU transferrable courses (note that a higher GPA may be required in some institutions)
- Completion of at least 18 units in the major with a grade of “C” or better
- Certified completion of the CSU General Education-Breadth (CSU GE-Breadth) requirements, or completion of the Intersegmental General Education Transfer Curriculum (IGETC) requirements

Please Note: No more than 60 semester units are required for this degree and no additional requirements will be imposed by Evergreen Valley College.

CHAPTER 4: DEGREES AND CERTIFICATES

Program Learning Outcomes:

- Read critically about topics in psychology thereby identifying problems, theses, arguments, evidence, and conclusions.
- Write critically about topics in psychology thereby addressing problems, formulating theses, making arguments, analyzing and weighing evidence, and deriving conclusions.
- Think critically in speaking about topics in psychology thereby articulating problems, stating theses, posing arguments, explaining evidence and communicating conclusions.

Core Requirements

MATH 063	Elementary Statistics	3.0
PSYCH 001	General Psychology	3.0
PSYCH 018	Introduction to Research Methods	3.0

List A: Select One Course 3-4

PSYCH 030	Introduction to Biological Psychology	
BIOL 020	Human Biology	
BIOL 021	General Biology	

List B: Select One Course (not used in List A above) 3.0

PSYCH 030	Introduction to Biological Psychology	
BIOL 020	Human Biology	
BIOL 021	General Biology	
ENGL 001B	English Composition or	
ENGL 001C	Critical Thinking/Composition	

List C: Select One Course 3.0

PSYCH 025	Psychology of Women; Global Perspective	
PSYCH 026	Violence against Women; Cross Cultural Perspective	
PSYCH 060	Growth and Adjustment	
PSYCH 092	Developmental Psychology	
PSYCH 099	Abnormal Psychology	
PYSCH 100	Human Sexuality	

Major Requirements (Core, List A, List B, List C)	18.0-20.0
CSU GE Breadth or IGETC for CSU	37.0-39.0
Transferable Electives (as needed)	0-5.0
Double Counted	<u>13.0-16.0</u>
Total (maximum)	60.0

SURVEYING AND GEOMATICS

Evergreen Valley College offers the only Surveying and Geomatics program in the South Bay area. The program trains students with the necessary skills to become a land surveyor. It provides students with the formal theoretical and laboratory course work necessary to prepare for the Land Surveyors-In-Training Examination and the Professional Land Surveyors Examination.

The program provides students with three options: An Associate in Arts Degree, an Associate in Science Degree, and a Certificate of Achievement. In order to be awarded the degrees or certificate, a grade of 'C' or better is required in each major course and major elective.

Program Learning Outcomes for Associate in Arts, Associate in Science, and Certificate of Achievement in Surveying and Geomatics:

- Create engineering graphics and surveying maps.
- Design and conduct surveys using various tools including GPS and GIS
- Incorporate maps, the subdivision map act, and the land surveying act to produce standard and legal surveys.
- Use the California coordinate system and boundary control and legal principles in surveys.

SURVEYING AND GEOMATICS – ASSOCIATE IN ARTS

CADD 130	Fundamentals of AutoCAD	OR	
ENGR 018	Engineering Design and Graphics		3.0
ENGR 060	Surveying		3.0
ENGR 061	Plane Surveying		3.0
ENGR 063	GIS for Civil Engineering and Surveying		3.0
SG 100*	Applied Math for Land Surveying		1.0
SG 141	Boundary Control and Legal Principles		3.0
SG 142	California Coordinate System		1.0
SG 143	Introduction to Photogrammetry		1.0
SG 145	Astronomy for Surveyors		1.0
SG 146	CAD for Civil Engineering, Surveying and Land Development		3.0
SG 147	Global Positioning System for Land Surveying		3.0
SG 148	Maps, Subdivision Map Act and Land Surveyors Act		3.0
SG 149	3D Laser Scanning for Land Surveying		3.0
Core Requirements			31.0
General Education Requirements			39.0
Total Units			70.0

SURVEYING AND GEOMATICS – ASSOCIATE IN SCIENCE

Core Requirements:

CADD 130	Fundamentals of AutoCAD	OR	
ENGR 018	Engineering Design and Graphics		3.0
ENGR 060	Surveying		3.0
ENGR 061	Plane Surveying		3.0
ENGR 063	GIS for Civil Engineering and Surveying		3.0
SG 100*	Applied Math for Land Surveying		1.0
SG 141	Boundary Control and Legal Principles		3.0
SG 142	California Coordinate System		1.0
SG 143	Introduction to Photogrammetry		1.0
SG 145	Astronomy for Surveyors		1.0
SG 146	CADD for Civil Engineering, Surveying and Land Development		3.0
SG 147	Global Positioning System for Land Surveying		3.0
SG 148	Maps, Subdivision Map Act and Land Surveyors Act		3.0
SG 149	3D laser Scanning for Land Surveying		3.0

Major Electives:

ENGR 010	Engineering Processes and Tools		5.0
LA 071	Legal Research		
BUS 065	Concepts of Management		
BUS 082	Introduction to Business		
Core Requirements			31.0
Elective Units			5.0
General Education Requirements			<u>24.0</u>
Total Units			60.0

SURVEYING AND GEOMATICS – CERTIFICATE OF ACHIEVEMENT

CADD 130	Fundamentals of AutoCAD	OR	
ENGR 018	Engineering Design and Graphics		3.0
ENGR 060	Surveying		3.0
ENGR 061	Plane Surveying		3.0
ENGR 063	GIS for Civil Engineering and Surveying		3.0
SG 100*	Applied Math for Land Surveying		1.0
SG 141	Boundary Control and Legal Principles		3.0
SG 142	California Coordinate System		1.0
SG 143	Introduction to Photogrammetry		1.0
SG 145	Astronomy for Surveyors		1.0
SG 146	CADD for Civil Engineering, Surveying and Land Development		3.0
SG 147	Global Positioning System for Land Surveying		3.0
SG 148	Maps, Subdivision Map Act and Land Surveyors Act		3.0
SG 149	3D Laser Scanning for Land Surveying		3.0
Total Units			31.0

* Math 22 also satisfies this requirement.

TRANSLATION AND INTERPRETATION – CERTIFICATE OF ACHIEVEMENT

This certificate program is designed to prepare students for a career in legal/court interpretation. The courses in this program are designed to prepare students to pass the State of California Court Interpreter Certification Exam. All program participants must be fluent in Spanish and English. Students must complete each course with a grade of 'C' or better.

Program Learning Outcomes:

- Apply the terminology used in translating and interpreting.
- Differentiate between translating and interpreting.
- Apply grammar and composition rules correctly.
- Translate sentences and texts from English to Spanish.
- Demonstrate appropriate grammar terminology through a verbal discussion.
- Identify the syntactic differences and similarities between Spanish and English.
- Identify text type and audience in order to execute translation decisions.
- Apply the appropriate use of sight translation in various settings.
- Interpret complex proceedings up to 145+ wpm. Use consecutive interpretation in the appropriate situations in court and hospital settings

SPAN 031	Introduction to Translation and Interpreting	4.0
SPAN 032	Spanish Grammar and Composition	3.0
SPAN 033	Spanish/English Linguistics Analysis	3.0
SPAN 035	Sight Translation	3.0
SPAN 036A	Consecutive Interpretation I	3.0
SPAN 036B	Consecutive Interpretation II	3.0
SPAN 037A	Simultaneous Interpretation I	3.0
SPAN 037B	Simultaneous Interpretation II	3.0
Total Units		25.0

Please Note:

There is a separate application process for this program. Interested students should submit an application so they

can be notified when the next group of students will begin the Translation & Interpretation program sequence. This date will depend on the number of interested students and the availability of instructors.

Minimum requirements:

1. All applicants must be fluent in Spanish and English, and have a speaking proficiency equivalent to that of an educated native speaker. Applicants will have to take a bilingual proficiency assessment.
2. It is recommended that all applicants should have completed at least one term of college English.
3. All applicants must submit a Translation and Interpreting application to the Language Arts Division, located in the Roble building, room RE-206.
4. All applicants must attend an orientation.

