



VICTOR
VALLEY
COLLEGE

2015-2016

Addendum to the 2015-2016 Catalog

This document contains updates to certain courses and programs that have occurred since the original printing of the Catalog.



ANIMAL SCIENCE SPECIALIST CERTIFICATE

Units Required: 14.0 or 16.0

Group I - All of the following must be completed:

- AGNR 100 General Animal Science 3.0
- AGNR 101 Animal Nutrition 3.0
- AGNR 106 Veterinary Terminology and Technology 3.0
- AGNR 107 Livestock Selection and Evaluation 3.0

Group II - One of the following must be completed:

- AGNR 102 Equine Science 4.0
- AGNR 105 Equine Health 3.0
- AGNR 123 Introduction to Plant Science 3.0
- AGNR 131 Soil Science 3.0
- AGNR 138 Cooperative Education 2.0 or 3.0
- AGNR 170 Environmental Science 4.0
- AGNR 175 Sustainable Agriculture, Environment and Society 3.0
- AGNR 177 Principles of Wildlife Management 3.0
- AGNR 178 Agriculture Economics 3.0
- CHEM 100 Introductory Chemistry 4.0
- GUID 100 Career and Life Planning 2.0
- MATH 120 Introduction to Statistics 4.0
- or
- MATH 120H Honors Introduction to Statistics 4.0

Course Updates
January 2015 - October 2015

Course	Title	Units	Hours	Description	Transfer
ACOM 35K	Mathematics Tutoring	0.0	48-54 hours lab	This course is for students wishing to receive tutoring in the Math Success Center at VVC. Students will be allowed to receive up to 96 hours of tutoring over a two semester period of time. Tutoring topics will be based on math skills covered in the co-requisite math course.	
AENG 1	Citizenship Preparation Level 1	0.0	48-54 hours lab	This course is for very limited English speakers wishing to prepare for the Naturalization interview. The course focuses on improving spoken English language skills required to pass the Naturalization test.	
AGNR 152	Irrigation and Water Management	3.0	32-36 hours lecture and 48-54 hours lab	An introduction to the complex sustainability issues that face water managers in California, including the conservation practices and technology that are making a difference. An introduction to irrigation methods like drip, micro, surface and sprinklers for nursery, landscapes, turfgrass, field crops and tree crop applications. Basic soil-plant-water relationships. Information needed for planning, design and scheduling of an irrigation system, irrigation hydraulics, irrigation efficiencies and modern controllers. Focuses on the design, installation and maintenance of water efficient irrigation systems in homes and agriculture.	UC, CSU
AGNR 171	Introduction to GIS in Natural Resources	3.0	32-36 hours lecture and 48-54 hours lab	Focus on electronic methods of cartography following a presentation of mapping concepts and methods in AGNR applications. This course covers the history, structure and uses of the basic operations of Geographic Information Systems (GIS), including hardware and software requirements used in AGNR. Examination of the role of other spatial technologies: aerial photography, remote sensing, and Global Positioning Systems - GPS.	CSU
AJ 102	Criminal Trial Processes	3.0	48-54 hours lecture	Legal processes from pre-arrest through trial, sentencing and correctional procedures. An analysis of ethical decisions made by police, prosecutors, defense attorney, and the judiciary; conceptual interpretations of criminal trial procedural law as reflected in court decisions. A study of case law methodology and case research as the decisions impact upon the procedures of the justice system.	CSU
APE 160B	Intermediate Adapted Physical Exercise	1.0	48-54 hours lab	<i>Grade Option.</i> An individualized fitness program designed to maintain or increase current fitness level. Activities include postural skills, elements of fitness, relaxation and body concepts. Medical release required.	CSU

Course Updates
January 2015 - October 2015

Course	Title	Units	Hours	Description	Transfer
APE 160C	Advanced Adapted Physical Exercise	1.0	48-54 hours lab	<i>Grade Option.</i> An advanced individualized fitness program designed to maintain or increase current fitness level. Activities include postural skills, elements of fitness, relaxation and body concepts.	CSU
AUTO 50.1	Evolution of the American Automobile	3.0	48-54 hours lecture	<i>Grade Option.</i> This course will explore changes to the automobile relating to design, power plants, creature comforts, and environmental impact. Material covered will include changes each decade and how these were influenced.	
AUTO 50.5	Introduction to Basic Automotive Service and Maintenance	4.0	64-72 hours lecture	This course covers the basic functions of all the automotive systems as well as key parts of the entire automotive industry. Topics covered will include minor preventive maintenance procedures.	
AUTO 57	Automotive Brake/Wheel Alignment	12.0	128-144 hours lecture and 192-216 hours lab	This course covers diagnosis, repair and maintenance of brake and suspension systems, including drum and disc brakes, brake hydraulics, power assist units, front and rear suspension systems, shocks and struts, steering linkages and power steering systems. All aspects of alignments will be covered including two and four wheel and struts on different alignment apparatuses. Maintenance of all parts of the brake and suspension systems will be covered.	
AUTO 80F	Ford Diagnostic and Repair Strategies	4.0	48-54 hours lecture and 48-54 hours lab	This course covers late-model Ford vehicles. Current factory procedures will be introduced to diagnose and repair OBD-2 computer and emission systems.	
AUTO 85.1	Introduction to Engine Performance Theory	4.0	64-72 hours lecture	This course covers engine performance theory and techniques used by the automotive industry to diagnose and repair driveability malfunctions.	
AUTO 85-D	BAR Specified Diagnostic Repair Training	4.0	48-54 hours lecture and 48-54 hours lab	This course covers information required by the Bureau of Automotive Repair pertaining to diagnosis and repair of emission systems. Topics covered are: safety, electrical, emissions, and diagnostic strategies.	
AUTO 95A	Automotive Laboratory	1.0	48-54 hours lab	A laboratory class to develop skills in engine repair, tune up, emissions, electrical, suspension, brakes, and general maintenance procedures.	
AUTO 95B	Automotive Laboratory	2.0	96-108 hours lab	A laboratory class to develop skills in engine repair, tune up, emissions, electrical, suspension, brakes, and general maintenance procedures.	

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Course	Title	Units	Hours	Description	Transfer
AVA 50	Aviation Technology Survey	4.0	48-54 hours lecture and 48-54 hours lab	This course is designed to allow interested students the ability to explore aviation maintenance career pathways. This course will focus on principles and practices of modern aircraft maintenance technology.	
AVA 52	General Aviation 2	9.5	120-135 hours lecture and 96-108 hours lab	<i>Prerequisite: AVA 51 with a grade of "C" or better.</i> This course is designed to prepare students for a career in aviation maintenance technology. Topics include maintenance and ground operations.	
AVA 61	Airframe 1	9.5	96-108 hours lecture and 168-189 hours lab	<i>Prerequisite: AVA 51 and AVA 52 with a grade of "C" or better.</i> This course is designed to prepare students for a career in aviation maintenance technology. Topics include aircraft materials (wood, metal, nonmetallic), coverings and finishes, aircraft inspection, assembly and rigging and welding.	
AVA 62	Airframe 2	9.5	96-108 hours lecture and 168-189 hours lab	<i>Prerequisite: AVA 51 and AVA 52 with a grade of "C" or better.</i> This course is designed to prepare students for a career in aviation maintenance technology. Topic includes aircraft atmosphere, communication, navigation, fuel, landing gear, hydraulic, and pneumatic power systems.	
AVA 63	Airframe 3	9.5	96-108 hours lecture and 168-189 hours lab	<i>Prerequisite: AVA 51 and AVA 52 with a grade of "C" or better.</i> This course is designed to prepare students for a career in aviation maintenance technology. Topic includes safety systems, aircraft electrical systems, positioning and warning systems, ice and rain control systems, and fire protection systems.	
BIOL 110	Introduction to Human Nutrition	3.0	48-54 hours lecture	<i>Prerequisite: BIOL 231, and CHEM 100, CHEM 100H or CHEM 206. Recommended Prep: ENGL 101.0 or ENGL H101.0.</i> Introduction to the medical aspects of nutrition, intended for students pursuing a career in health care. Biological function and chemical classification of nutrients. Nutritional needs throughout the lifespan. Effects of nutritional deficiencies and excesses. Recommended nutrient intakes and the role of diet in the development of chronic disease.	CSU

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Course	Title	Units	Hours	Description	Transfer
CIDG 120	3-D CADD Using Inventor	3.0	32-36 hours lecture and 48-54 hours lab	Solid Modeling and Three Dimensional CADD will introduce students to a new Autodesk software package entitled INVENTOR. Students will understand the concepts involved in Parametric Modeling. Students will begin by constructing basic shapes and proceed to building intelligent solid models and create multi-view drawings. Assembly drawings, section views, auxiliary views, sheet metal drawings, and details will also be produced. Students will develop their drafting and computer skills through drawings and projects that emphasize teamwork and the design process. Students will also learn various hardware, software and peripheral components related to operating a CADD station.	CSU
CIS 206	Programming Java	4.0	48-54 hours lecture and 48-54 hours lab	This is a course for programming in Java. The course will cover the basics of the Java programming language and object- oriented programming method. Some of the more advanced topics such as applets programming data structure implementation in Java will also be covered.	CSU
CIS 264	Discrete Structures	3.0	48-54 hours lecture	Prerequisite: MATH 90. This course will cover logic in computer science as a tool to establish truth through various techniques of proof. The goal of this course is for us to learn formal logic as a theoretical foundation and its application to topics in discrete mathematics and computer science.	CSU,UC
EDUC 101	Introduction to Teaching	3.0	48-54 hours lecture	Introduction to teaching as a career and education as a social institution. Crucial issues facing schools in American democratic society are considered, especially K-12 goals, curriculum, and methods. Opportunities, challenges, and requirements of the profession are presented. This course is not designed to be a course in professional education. A minimum 30 hours of observation/participation in public schools grades K-8 by arrangement with the instructor.	CSU,UC
EMS 71	Advanced Emergency Medical Technician (AEMT) Clinical	1.0	48-54 hours lab	<i>Prerequisite: EMS 70 with a grade of "B" or better, and current CA EMT or NREMT Licensure.</i> This course is the first part of a student's internship in the AEMT program. This course includes lab hours at an acute care facility performing CA Title 22 Chapter 3 scope of care skills. Per CA Title 22 Code of Regulations repeatability may be offered if unsuccessful licensure or license expiration occurs.	

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Course	Title	Units	Hours	Description	Transfer
EMS 80	Paramedic Anatomy and Physiology	3.5	48-54 hours lecture and 24-27 hours lab	<i>Prerequisite: Application and acceptance into the Paramedic Academy and successful completion of EMS 60 with a B grade or better or an EMT card equivalent.</i> This is the introductory course of the paramedic program. This course includes basic anatomy, physiology and medical terminology for the paramedic.	
EMS 81	Paramedic Introduction to Emergency Medical Services	3.5	48-54 hours lecture and 24-27 hours lab	<i>Prerequisite: Application and acceptance into the Paramedic Academy and successful completion of EMS 60 with a B grade or better or an EMT card equivalent.</i> This course covers roles and responsibilities of the EMT-P. It also includes the Emergency Medical Services System, EMS communication and leadership as it relates to the EMT-P.	
ETEC 106	Introduction to Computer Technology for Educators	4.0	48-54 hours lecture and 48-54 hours lab	A survey course which provides an overview of computer technology for multi-disciplinary majors, but with emphasis on its role in educational settings. The course provides instruction in a variety of topics supported by hands-on laboratory work with operating systems, word processing, spreadsheets, presentations, social media, and the Internet. Application and evaluation of computer technology in learning environments serves as the overall framework.	CSU
FIRE 11E	Rapid Intervention Crew Tactics	1.5	16-18 hours lecture and 27-27 hours lab	<i>Pass/No Pass only. Prerequisite: Fire Fighter 1 per OSFM or Equivalent Experience.</i> This course is designed to meet OSHA respiratory protection standards for two in/two out and provides students with self survival and basic firefighter rescue skills. <i>Prerequisite: Fire Fighter I per Office of the State Fire Marshal.</i> Course does not apply to the associate degree.	
FIRE 53A	Fire Apparatus Driver/Operator 1A: Emergency Vehicle Operations	1.5	16-18 hours lecture and 27-27 hours lab	<i>Pass/No Pass only.</i> (Formerly FIRE 63) This course provides the student with information on driver responsibilities, recognized standards, and related laws for fire apparatus. Topics include basic inspections, documentation, maintenance, and troubleshooting fire apparatus, and techniques on driving and positioning fire apparatus. Each student also has the opportunity to increase his or her driving skills during simulated driving conditions. Designed for fire service emergency response personnel.	

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Course	Title	Units	Hours	Description	Transfer
FIRE 59B	Wildland Fire Skills Maintenance	1.5	16-18 hours lecture and 27-27 hours lab	<i>Pass/No Pass only. Recommended Preparation: Employment as a wildland fire fighter or fire fighter serving a community with wildland or interface fire conditions. (Formerly FIRE 10B)</i> This course provides the fire fighter student with new information and skill development to maintain efficiency and effectiveness as a wildland fire fighter. New protocols, procedures and equipment are presented and student demonstrates proficiency in using tools, tactics and strategies for fire control.	
FIRE 61K	Rescue Systems 3: Structure Collapse Technician	0.5	24-27 hours lab	<i>Pass/No Pass only.</i> Bridges the training gap between the California State Fire Training Rescue Systems 2 Advanced Rescue Skills course and the Federal Emergency Management Agency Structural Collapse Technician course. Key topics include: power actuated tools, pneumatic shores, additional tools and techniques for breaking and breaching, cutting a tensioned cable, the "O" course, rigging, and crane operations.	
FIRE 61L	Rope Rescue Technician	1.0	8-9 hours lecture and 24-27 hours lab	<i>Pass/No Pass only.</i> This course will prepare participants to undergo competency testing for high angle rescue. The scope of the program is to familiarize participants with the high angle environment and experience; and for them to safely participate in the engineering and operation of simple to complex rescue systems.	
FIRE 63A	Auto Extrication	0.5	24-27 hours lab	<i>Pass/No Pass only.</i> Provides hands-on experience in the procedures and systems utilized during an automobile extrication. Subjects covered include: Auto Extrication, types of hand and power tools, removing windows, opening doors, removing windows, opening doors, removing roofs, pulling steering wheels, moving foot pedals, raising dashboards, pulling seats, stabilization of vehicles, and simulated rescues of trapped victims.	
FIRE 82	Hazardous Materials First Responder Awareness	0.5	8-9 hours lecture	<i>Pass/No Pass only.</i> This course is designed to provide the student with information essential to those people who are likely to be first responders at hazardous materials incidents. Designed to meet federal and state requirements for awareness training for employees handling and using hazardous materials.	

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Course	Title	Units	Hours	Description	Transfer
KIN 210	Movement Anatomy	3.0	48-54 hours lecture	<i>Prerequisites: BIOL 211 or BIOL 215.</i> Exploration of the muscular-skeletal system and its function during human movement. Study movement and the muscles involved during sport skill performance.	CSU
KIND 186A	Introduction to Hip Hop Dance	1.0	48-54 hours lab	<i>Grade Option.</i> Basic techniques and styles of Hip Hop dance both historical and current emphasizing musicality, rhythms, basic and complex movements required to develop performance and choreographic skills, and critical viewing and analysis of Hip Hop dance choreography.	CSU
MATH 104	Trigonometry	4.0	64-72 hours lecture	<i>Prerequisite: Math 90 or Math 66 with a grade of 'C' or better.</i> Topics for this preparatory course for calculus include trigonometric functions and equations, solutions of both right and oblique triangles, trigonometric forms of complex numbers and De Moivre's Theorem. Course content also includes verification of trigonometric identities, inverse trigonometric functions, half and multiple angles, vectors and their applications, parametric equations, polar coordinates and polar equations.	CSU
MATH 105	College Algebra	4.0	64-72 hours lecture	<i>Prerequisite: MATH 90 or Math 66 with a grade of 'C' or better.</i> The course offers a review of real numbers, real number exponents, and factoring polynomials. The course also covers equations and inequalities, solutions to systems of equations and inequalities, solutions to equations and inequalities involving absolute value, graphing relations and functions, matrices, determinants of matrices, matrix algebra. Complex numbers, the real and complex zeros of polynomials, the zeros of exponential, rational and radical functions, the conic sections, sequences, mathematical induction and the binomial theorem are also covered.	CSU, UC credit limitation
MATH 105H	Honors College Algebra	4.0	64-72 hours lecture	<i>Prerequisite: MATH 90 or Math 66 with grade of C or better.</i> This course covers all the topics of the regular Math 105 course, but the topics are covered in greater depth. Exponents and Radicals, Theory of Quadratic Equations, Simultaneous Quadratic Equations, Complex Numbers, Equations of Higher Degree, Inequalities, Logarithmic and Exponential Equations, Binomial Theorem, Matrices and Determinants, Partial Fractions, Sequences and Series.	CSU, UC credit limitation

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Course	Title	Units	Hours	Description	Transfer
MATH 119	Finite Mathematics	3.0	48-54 hours lecture	<i>Prerequisite: MATH 90 or Math 66 with a grade of 'C' or better.</i> This course covers linear functions and modeling, matrix operations (addition, subtraction, multiplication and inverses), systems of linear equations and inequalities, introductory linear programming, sets and counting techniques, probability theory, Markov chains, game theory and logic. Offered in Fall terms.	CSU, UC
MATH 120	Introduction to Statistics	4.0	64-72 hours lecture	<i>Prerequisite: Math 90 or Math 66 with a grade of "C" or better, or eligibility as determined by VVC assessment test.</i> The use of probability techniques, hypothesis testing, and predictive techniques to facilitate decision-making. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-square and t-tests; and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings. Applications using data from disciplines including business, social sciences, psychology, life science, health science, and education.	CSU, UC
MATH 120H	Honors Introduction to Statistics	4.0	64-72 hours lecture	<i>Prerequisite: Math 90 or Math 66 with a grade of "C" or better.</i> The use of probability techniques, hypothesis testing, and predictive techniques to facilitate decision-making. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-square and t-tests; and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings. Applications using data from disciplines including business, social sciences, psychology, life science, health science, and education. In addition, the Honors component will include the design of surveys, probability testing, and a research project.	CSU, UC
MATH 132	The Ideas of Math	3.0	48-54 hours lecture	<i>Prerequisite: Math 90 or Math 66 with a grade of "C" or better, or eligibility as determined by VVC assessment test.</i> Sets and their application to permutations, combinations, binomial theorem, correspondence, countability, finite probability measures, and expectation; linear, exponential and geometric modeling with applications.	CSU, UC

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Course	Title	Units	Hours	Description	Transfer
MATH 63	Pre-Statistics Mathematics	5.0	80-90 hours lecture	<i>Prerequisite: Math 12 or Math 42 (formerly Math 50) with a grade of 'C' or better.</i> This non-STEM course covers core algebra skills needed to understand the concepts, formulas, and graphs used in transfer-level statistics. Integrates numeracy, proportional reasoning, algebraic reasoning, and functions. Develops conceptual and procedural tools that support the use of key mathematical concepts in a variety of contexts. Throughout the course, college success content will be integrated with mathematical topics. This course is NOT intended for math, science, computer science, business, or engineering majors.	
NURS 223	Nursing Process 3	9.0	64-72 hours lecture and 240-270 hours lab	<i>Prerequisite: NURS 222 with a minimum grade of "C".</i> This course will synthesize and correlate nursing knowledge and skills in providing care to multiple patients who have complex, multi-system illnesses. Focus will be for the students to predict patient needs and priorities, and evaluate outcomes of care. Associated psychomotor skills will be integrated and practiced.	CSU
PAL 104	Legal Ethics for Paralegals	3.0	48-54 hours lecture	This course examines the role of the paralegal in the rendering of legal services by attorneys to clients and the ethical rules that govern that relationship. The student will become familiar with the concept of the unauthorized practice of law, the criminal penalties such practices carry, and the best means to avoid liability. Comprehensive study of the ABA's Model Rules of Professional Conduct will give the student a broad base from which to operate ethically and legally as a paralegal.	CSU
PAL 202	Family Law	3.0	48-54 hours lecture	<i>Corequisite: PAL 201.</i> This course examines Family Law rules and procedures for the paralegal working in a California family law practice. Concepts covered include marital contracts, annulment, separation, dissolution, child custody and support, spousal support, property division, and tax consequences of family law procedures. Included will be current topics in family law such as demise of marriage, same-sex unions, adoptions, and practice and procedure.	CSU

Course Updates
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Course	Title	Units	Hours	Description	Transfer
PAL 203	Tort Law for Paralegals	3.0	48-54 hours lecture	<i>Corequisite: PAL 201.</i> This course introduces the paralegal to the world of tort law; takes them through the basic concepts that are the foundation of negligence litigation (duty, breach, causation, damages), intentional torts to both persons and property, and strict liability. Introduces the student to investigative procedures in personal injury cases.	CSU
PHIL 101	Introduction to Philosophy	3.0	48-54 hours lecture	<i>No prerequisite. Recommended preparation: ENGL 50 or eligibility for ENGL 101.0.</i> Introduction to the methods and subject matter of the discipline of philosophy through critical analysis of primary texts and discussion of enduring questions regarding reality, knowledge, and value. Topics include the sources and limits of knowledge; the nature of reality, mind, and personal identity; the existence of God and religious experience; moral value; philosophy of science; the nature of truth; distributive justice; and the meaning of life.	CSU, UC
PHIL 114	Political Philosophy	3.0	48-54 hours lecture	<i>No prerequisite. ENGL 101.0 recommended.</i> Introduction to the normative discussion of social organization from a variety of philosophical perspectives. Topics include the nature of the state, rights, the role of law, liberty, distributive justice, and the common good. Emphasis on the American social experience with additional attention given to the global context.	CSU,UC
PHIL 117	Philosophy of Religion	3.0	48-54 hours lecture	<i>No prerequisite. Eligibility for ENGL 101.0 recommended.</i> Introduction to major topics in the Philosophy of Religion: the existence and nature of God, religious experience and knowledge, and concepts of immortality and human destiny. Special attention is given to conflicts between religion and science, competing claims for religious truth, and the relevance of religion to social ethics. Three lecture hours per week. See cross-listing for RLST 117.	CSU,UC
PSYC 51	Peer Tutoring Fundamentals	1.0	16-18 hours lecture	<i>Pass/No Pass only.</i> Psyc 51 is designed to teach potential tutors to learn and practice the skills tutors need to work with students in one-on-one and group situations. The primary goal for a tutor is not to teach but to assist the student in learning course content and study skills/habits.	

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Course	Title	Units	Hours	Description	Transfer
RLST 117	Philosophy of Religion	3.0	48-54 hours lecture	<i>No prerequisite. Eligibility for ENGL 101.0 recommended.</i> Introduction to major topics in the Philosophy of Religion: the existence and nature of God, religious experience and knowledge, and concepts of immortality and human destiny. Special attention is given to conflicts between religion and science, competing claims for religious truth, and the relevance of religion to social ethics. Three lecture hours per week. See cross-listing for RLST 117.	CSU,UC
RPST 90	Echocardiography 1	10.0	64-72 hours lecture and 288-324 hours lab	<i>Prerequisite: Acceptance into the Respiratory Therapy Program. Recommended preparation: BIOL 211 and 231, MATH 90.</i> This course is designed to prepare students for an entry level career in a hospital or clinic as an echocardiographer. Topics include physics, instrumentation, cardiac anatomy and physiology, cardiac disease specific calculations, standard exam calculations and protocol.	
TA 203	Script Analysis	3.0	48-54 hours lecture	A script for a play contains the words of a playwright which serve as a blueprint from which directors, designers, and actors create the world of the play for an audience. Thorough analysis of the play is critical for the writer's world to be fully realized on the stage. Students will learn to closely examine the play script using various methods of analysis in order to make informed choices about performance, directing, technical elements and design elements.	CSU

Liberal Arts

Associate in Arts Degree

The Associate degree in Liberal Arts is designed for students who wish to have a broad knowledge of the liberal arts and sciences plus additional coursework in an Area of Emphasis. Within this major, students who plan on transferring to a university can typically satisfy both their general education requirements as well as many pre-major requirements for transfer. Consult with a counselor for information regarding your intended major and the specific college or university of your choice. Visit www.assist.org for more information.

Requirements:

► *Choose one General Education option:*

AA degree only; California State University (CSU) GE; or IGETC (for either CSU or UC).

► *Choose an Area Of Emphasis:*

Complete a minimum of 18 units from ONE of these three areas of emphasis below.

► Mathematics/Science Emphasis

These courses emphasize the natural sciences which examine the physical universe, its life forms and its natural phenomena. Courses in Math emphasize the development of mathematical and quantitative reasoning skills beyond the level of intermediate algebra. Students will be able to demonstrate an understanding of the methodologies of science as investigative tools. Students will also examine the influence that the acquisition of scientific knowledge has on the development of the world's civilization.

- *Complete at least 18 units from the following, with at least one course in math AND one in science, with at least TWO courses in any ONE subject.*

AGNR 123, 170; **ANTH** 101, 101L; **ASTR** 101; **BIOL** 100/H100, 107, 114, 118, 121, 201, 202, 203, 210, 211, 214, 221, 231; **CHEM** 100, 201, 202, 206, 207, 281, 282; **GEOG** 101, 101L, 130; **GEOL** 101, 102, 103; **MATH** 104, 105/H105, 116, 119, 120/H120, 132, 226/H226, 227/H227, 228/H228, 231, 270; **OCEA** 101; **PSCI** 101; **PSYC** 109; **PHYS** 100, 201, 202, 203, 204/H204, 221, 222

► Arts and Humanities Emphasis

These courses emphasize the study of cultural, literary, and humanistic activities and artistic expression. Students will evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and to the world around them in artistic and cultural creation. Students will also learn to value aesthetic understanding and incorporate these concepts when constructing value judgments.

- *Complete at least 18 units from the following, with at least TWO courses in any ONE subject.*

ANTH 106; **ART** 101, 102, 103, 104, 105, 106, 107, 108, 109, 112, 113, 114, 120, 122, 125, 133*, 150; **CART** 133*; **CMST** 105 (Intercultural); **ENGL** 102/H102, 116*, 210A, 210B, 211A, 211B, 220, 225, 230, 231, 232, 234, 235, 240, 241, 245, 246, 247; **HIST** 103, 104, 115/H115, 117/H117, 118/H118, 130, 131, 155, 157; **KIN** 103 (History of Dance); **MUSC** 100, 101, 102, 103, 116, 117, 118, 131, 202, 204; **PHIL** 101, 108, 114*, 117, 120, 121; **POLS** 114*; **RLST** 101, 105, 106, 110, 111, 115, 117; **TA** 101, 102, 104, 107, 110, 116*, 117

Languages: **ASL** 122, 123, 124, 125; **FREN** 101, 102, 103, 104; **SPAN** 101, 101A, 101B, 102A, 102B, 102, 103, 104

► Social/Behavioral Science Emphasis

These courses emphasize the perspectives, concepts, theories and methodologies of the social and behavioral sciences. Students will learn about themselves and others as members of a larger society. Topics and discussion to stimulate critical thinking about ways people have acted in response to their societies will allow students to evaluate how societies and social subgroups operate.

- *Complete at least 18 units from the following, with at least TWO courses in any ONE subject.*

AGNR 175, 178; **AJ** 101; **ANTH** 101, 102, 103, 105, 106; **CHDV** 100, 106; **CMST** 105 (Intercultural); **ECON** 101, 102; **GEOG** 101, 102, 103, 104; **GUID** 101, 105, 107; **HIST** 103, 104, 115/H115, 117/H117, 118/H118, 130, 131, 155, 157; **KIN** 104; **PHIL** 114*; **POLS** 101, 102/H102, 103, 104, 110/H110, 111, 112, 113, 114*, 206, 211; **PSYC** 101/H101, 103, 110/H110, 111, 121, 125, 133, 204, 213; **RLST** 105, 106, 110, 113, 115; **SOC** 101, 102, 103, 107

***ENGL** 116 and **TA** 116 are the same course;

PHIL 114 and **POLS** 114 are the same course;

GUID 105 and **PSYC** 105 are the same course.