This addendum to the West Valley College Catalog contains new and revised courses that have been approved by the West Valley College Curriculum Committee between May 1st and October 1st of 2010. Some of these courses have not received final approval by the West Valley College Academic Senate and West Valley-Mission Community College District Board of Trustees. As these approvals occur, further updates or revisions will be posted online at http://www.westvalley.edu/catalog/

**Course ID: AJ 030A**  
Course Title:  
Introduction to Administration of Justice Agencies  
Units: 3  
Lecture: 3  
Laboratory:  
Grade Type: Grade Only  
Prerequisite:  
Must be age 18 years of age or older.  
Recommended Preparation:  
Some agencies may bar students w/felony convictions  
Pre-req: Must be age 18 or older. Rec prep: Some agencies may bar students’ w/felony convictions.  

This is a course for students, police officers, deputy sheriffs, probation and parole officers.

**Course ID: AJ 160M**  
Course Title:  
Juvenile Corrections Officer Core  
Units: 4  
Lecture: 3  
Laboratory: 1  
Grade Type: Grade Only  
Prerequisite:  
Students must be employed by an agency regulated by the California Department of Corrections and Rehabilitation (CDCR), Corrections (CSA) Standards Authority (CSA).  

This course covers topics and skills needed to meet the California Department of Corrections requirements for an entry level juvenile corrections officer.

**Course ID: AJ 160J**  
Course Title:  
Standards and Training for Corrections  
Units: 0.5 - 3  
Lecture: 0.5 - 3  
Laboratory:  
Grade Type: Grade Only  
Prerequisite:  
Class participation is limited to employees of an agency/department eligible for participation in Standards and Training for Corrections (STC).  
Specifically, Title 15, Division 1, Chapter 1, Subchapter 1, Sections 100 through 358 of the California Code of Regulations state in part: Agencies eligible for participation in STC include those of any county, city and county, or city defined as: county probation departments, county or city jails.
designated as Types I, II, III or IV by Title 15 CCR; or, juvenile institutions that operate as a separate entity or under jurisdiction of a county probation department, as described in Section 872 and 885 of the Welfare and Institutions Code.

This course covers topics that meet education and training objectives for probation officers and adult and juvenile institution staff. Topics are categorized according the following content: legal, procedural, communication, safety and security, medical and mental/emotional issues, casework, and management and supervision. This is a variable unit course.

**Course ID: AJ 160K**
Course Title: Field Training for Officers
Units: 0.5 - 10
Lecture: 0
Laboratory: 0.5 - 10
Grade Type: Pass/No Pass
Prerequisite: Completion of Basic Academy or AJ 160L.

The course covers the basic functions of patrol services and operations for peace officers who have completed a POST certified Academy. This is a variable unit course. Credit/No Credit Option.

**Course ID: AJ 160L**
Course Title: Basic Academy
Units: 23
Lecture: 17
Laboratory: 6
Grade Type: Grade Only
Prerequisite NONE

This is a Commission on Peace Officers Standards and Training (P.O.S.T) certified basic course for persons intending to become full time law enforcement officers in California. The course provides instruction, practice, and evaluation of the skills, the knowledge, and the physical requirements required by the State of California to meet the minimum standards to be employed as a peace officer in California.

**Course ID: AJ 160P**
Course Title: Laws of Arrest, Search, and Seizure (PC 832)
Units: 1
Lecture: 0.5
Laboratory: 0.5
Grade Type: Grade Only

Prerequisite: Student must be employed by an agency where peace officer powers are required under PC 832. This course satisfies PC 832 requirements for “defined” peace officers other than sworn law enforcement personnel. The course covers professional orientation, laws of arrest, search, seizure, evidence, preliminary investigations, communications, and arrest techniques. It does not include the use of firearms.
Course ID: ARCH 052
Course Title:
Architectural Graphics: Color Rendering
Units: 3
Lecture: 2
Laboratory: 1
Grade Type: Grade or pass/no pass
Recommended Preparation:
MATH 103: Elementary Algebra
or
MATH 103R: Elementary Algebra

This course is a study of three-dimensional representations using various color media as it relates to architectural and environmental graphic communication. Students have opportunities to develop visual color literacy, three-dimensional drawing techniques, and an understanding of color rendering. This course covers natural and human-made forms and advanced architectural color rendering.

Course ID: ARCH 077
Course Title:
GIS Applications to Architecture & Landscape Architecture
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade or pass/no pass
Prerequisite NONE

This course is a study of Geographic Information Systems (GIS) software for application to relevant, natural and manmade environmental systems. It addresses both theory and application and provides the student with a dynamic analytical framework within which temporal and spatial data and information is gathered, integrated, interpreted, and manipulated. The students develop an architectural or landscape architectural data base, to explore relevant environmental issues utilizing natural resources data such as habitats, vegetation, soils, topography, and geology. This course emphasizes a conceptual appreciation of the rapidly expanding field of GIS and offers an opportunity to apply some of those concepts to architecture, landscape architecture, and planning issues.

Course ID: ARCH 084
Course Title:
Sustainability in Landscape Architecture
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade or pass/no pass
Prerequisite NONE
This course covers the topic of sustainability in landscape architectural design studio. Students have opportunities to study sustainable environmental and visual phenomena through landscape architectural design exercises. Additional topics include Firescaping, green roof, plant restoration, habitat restoration, and Brownfield. Students have opportunities to apply sustainable design to a specific site.

**Course ID:** BUS 040  
**Course Title:** Sales Strategies  
**Units:** 3  
**Lecture:** 3  
**Laboratory:** 0  
**Grade Type:** Grade or pass/no pass  
**Recommended Preparation:**  
CA 020: MacIntosh - an Introduction  
or  
CA 070: Using Microsoft Windows

In this course students have the opportunity to learn about basic sales principles and strategies. Students also have the opportunity to learn how to motivate customers, close sales, and maintain ongoing positive customer relationships. Specific sales steps such as prospecting, qualifying, effective sales presentations are reviewed. This course also explores sales related careers such as manufacturer representatives, wholesale and retail sales, and sales engineers.

**Course ID:** BUS 056  
**Course Title:** Marketing Principles  
**Units:** 3  
**Lecture:** 3  
**Laboratory:** 0  
**Grade Type:** Grade or Pass/No Pass  
**Prerequisite:** NONE

This course gives students the opportunity to develop an overall understanding of marketing functions and their role in society. This course covers various activities involved in the transfer of goods from producer to consumer. Retail, wholesale, industrial, and online marketing channels and institutions are investigated. The marketing concept, promotional strategies, pricing policies, and international marketing are also explored.

**Course ID:** CA 020  
**Course Title:** MacIntosh - an Introduction  
**Units:** 1  
**Lecture:** 1  
**Laboratory:** 0  
**Grade Type:** Pass/no pass  
**Prerequisite:** NONE

This course is an introduction to the Apple Macintosh computer. Basic operations covered include: Pointing, clicking, dragging, working with the desktop and files, printing, and loading an application program. Software concepts are introduced using paint and word processing programs.
Course ID: CA 031B  
Course Title:  
Beginning Word Processing, Microsoft  
Units: 1  
Lecture: 1  
Laboratory: 0  
Grade Type: Pass/no pass  
Recommended Preparation:  
CA 010D: Computer Keyboarding

The software program MS Word is taught in this course. Students have the opportunity to learn the syntax and structure of the software and basic operating procedures. Specific topics to be included are: an overview of function key commands, cursor movement, basic input and editing procedures, file handling, line and page format features, basic file management, and simple document formatting.

Course ID: CA 032B  
Course Title:  
Intermediate Word Processing: Microsoft  
Units: 2  
Lecture: 2  
Laboratory: 0  
Grade Type: Grade or pass/no pass  
Recommended Preparation:  
CA 031B: Beginning Word Processing, Microsoft

In this course students have the opportunity learn advanced word processing procedures using MS Word. Topics include: editing features and menu commands to produce letters, statistical tables, and reports. Advanced commands are used in creating glossary entries for outlining, indexing, and table of contents, using calculation, style sheets, merging, sorting capabilities and importing features.

Course ID: CA 041  
Course Title:  
Desktop Publishing - Adobe InDesign  
Units: 3  
Lecture: 3  
Laboratory: 0  
Grade Type: Grade or pass/no pass  
Recommended Preparation:  
CA 010D: Computer Keyboarding

This course focuses on the uses of Adobe InDesign for document layout and design. Students have the opportunity to learn how to integrate text, graphics, and photographs to create a variety of professional quality finished documents for practical and business use. Design principles and techniques for kerning, tracking, alignment, using templates, and using style palettes are also covered.

Course ID: CA 043B
Course Title: Mastering Illustrator 1
Units: 1
Lecture: 1
Laboratory: 0
Grade Type: Pass/no pass
Recommended Preparation:
CA 010D: Computer Keyboarding

This is an introductory course using illustration software to create graphic images, which can be used with other desktop publishing software. Topics to be covered include generating images such as business logos and forms, printing the images, creating lines and curves, adding text to graphics, shaping, editing and grouping graphics, and transforming images into new forms. This course is not equivalent to DM/IS 014C, Digital Illustration 1: Illustrator.

Course ID: CA 046B
Course Title: Presentation, PowerPoint
Units: 1
Lecture: 1
Laboratory: 0
Grade Type: Pass/no pass
Recommended Preparation:
CA 020: MacIntosh - an Introduction
or
CA 070: Using Microsoft Windows

Students in this course are given the opportunity to learn to use a comprehensive software program. Using templates for formatting text and data organized in outline form, creating overhead transparencies, preparing slide presentations, and printing presentation notes are studied.

Course ID: CA 046D
Course Title: Intermediate Microsoft PowerPoint
Units: 1
Lecture: 1
Laboratory: 0
Grade Type: Pass/no pass
Recommended Preparation:
CA 010D: Computer Keyboarding
and
CA 020: MacIntosh - an Introduction
or
CA 070: Using Microsoft Windows

This is an intermediate Microsoft PowerPoint course for integrating multimedia into presentations. Students develop presentations incorporating multimedia technology, drawings, clip art, audio, video and animation. Students customize PowerPoint windows and settings.
Course ID: CA 062B
Course Title: Beginning Spreadsheets: Microsoft Excel
Units: 1
Lecture: 1
Laboratory: 0
Grade Type: Pass/no pass
Recommended Preparation: CA 010D: Computer Keyboarding

This course provides the students with the opportunity to learn the capabilities of a spreadsheet program. Students create spreadsheet formats, enter text data and formula expressions; store, retrieve, copy and print spreadsheets. Creating graphic representations of data and an introduction to macro capabilities are covered.

Course ID: CA 063B
Course Title: Intermediate Spreadsheets - Excel
Units: 2
Lecture: 2
Laboratory: 0
Grade Type: Grade or pass/no pass
Prerequisite: CA 062B: Beginning Spreadsheets: Microsoft Excel

This course provides students with the opportunity to learn the use of a spreadsheet program to solve practical business problems. Students use advanced graphing features of the program along with complex arithmetical functions, data analysis techniques, database commands, pivot tables and macros.

Course ID: CA 064
Course Title: Adobe Acrobat and PDF
Units: 1
Lecture: 1
Laboratory: 0
Grade Type: Pass/no pass
Recommended Preparation: CA 010D: Computer Keyboarding

This course focuses on using Adobe Acrobat to convert Microsoft documents to the PDF format. PDF files are enhanced with bookmarks, thumbnails, and links. Digital forms and web documents are converted to PDF format.

Course ID: CA 066
Course Title: Beginning Photoshop Elements
Units: 1
Lecture: 1
This is an introductory course in photographic image enhancement and manipulation using Adobe Photoshop Elements. This course focuses on the tools and methodologies employed to change, alter, composite, and adjust photographic images. Emphasis is placed on learning the tools, menus, pallets and functions. This course is suited for small business applications, amateur photographers, and hobbyists.

Course ID: CA 066A
Course Title: Using Microsoft Windows
Units: 1
Lecture: 1
Laboratory: 0
Grade Type: Pass/no pass
Prerequisite NONE

This introductory course introduces students to the use of Microsoft Windows, its application programs and utilities. It explores making the computer more efficient through proper use of the Windows system.

Course ID: CA 070
Course Title: Installing and Configuring Windows
Units: 1
Lecture: 1
Laboratory: 0
Grade Type: Pass/no pass
Recommended Preparation:
CA 070: Using Microsoft Windows

This course is geared for the more technically inclined student who wishes to learn more about MS Windows operations from the systems perspective. It gives students the opportunity to learn Windows setup and custom installation options; the purposes for each of the subsystems within Windows; how .INI files are used to control Windows startup; Windows services, such as fonts, drivers, Windows and non-Windows programs; and troubleshooting.

Course ID: CA 081
Course Title: Accessing With Access
Units: 3
Lecture: 3
Laboratory: 
Grade Type: Grade or pass/no pass
Recommended Preparation: CA 070: Using Microsoft Windows

This course introduces students to Microsoft Access, a database program, database concepts, terminology and applications. Students have the opportunity to learn how to define and construct basic forms and reports. Students also have the opportunity to use the Base file management program and receive instruction on how to create and manage database files. Emphasis is on techniques that promote operational efficiency, effective design and proper management of database files. Advanced features of the program are emphasized.

Course ID: CHEM 001A
Course Title: General Chemistry
Units: 5
Lecture: 4
Laboratory: 1
Grade Type: Grade Only
Prerequisite: MATH 106: Intermediate Algebra or MATH 106R: Intermediate Algebra or qualifying score on math placement test with proof of Algebra II, and CHEM 002: Introductory Chemistry or 1 year high school chemistry

This course covers the nature of matter and the changes it undergoes. Concepts covered include dimensional analysis, the structure of atoms, chemical equations, and stoichiometric calculations, properties of solutions, gas laws, calorimetry, Lewis structures, molecular geometry, oxidation-reduction, equilibrium, electron configurations and intermolecular forces.

Course ID: CHEM 002
Course Title:
Introductory Chemistry
Units: 4
Lecture: 3
Laboratory: 1
Grade Type: Grade Only
Prerequisite:
MATH 106: Intermediate Algebra
or
MATH 106R: Intermediate Algebra
or
Qualifying score on math placement test and proof of Algebra II

This course is an introduction to fundamental principles of chemistry and includes atomic theory, chemical bonding, molecular structure, chemical reactions, stoichiometry, gas laws, liquids and solids, acids and bases, equilibrium, and solution chemistry. The course stresses problem solving and is designed specifically to prepare the student for Chemistry 001A.

Course ID: CHEM 030A
Course Title:
Fundamentals of Chemistry
Units: 3
Lecture: 2
Laboratory: 1
Grade Type: Grade Only
Prerequisite:
MATH 103: Elementary Algebra
or
MATH 103R: Elementary Algebra
or
Qualifying score on math placement test and proof of Algebra II

This is an elementary course for non-science majors covering the basic principles of inorganic chemistry. It is especially designed for majors in the following four-year programs: Nursing, Physical Education, Administration of Justice, Psychology, Sociology, and Dental Hygiene. Not recommended for science majors.

Course ID: CHEM 030B
Course Title:
Fundamentals of Chemistry
Units: 3
Lecture: 2
Laboratory: 1
Grade Type: Grade Only
Prerequisite:
CHEM 030A: Fundamentals of Chemistry

This course is a continuation of Chemistry 30A with emphasis in fields of organic and introductory biochemistry.
Course ID: CHS 001
Course Title: Introduction to Early Childhood
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade or pass/no pass
Prerequisite: NONE

This foundation course explores the field of early childhood education from multicultural, socio-economic, and professional perspectives. Students explore how many roles of the teacher and environment impact the growth and development of the child within an emergent play-based curriculum model.

Course ID: CHS 031
Course Title: Student Teaching Practicum
Units: 3
Lecture: 1
Laboratory: 2
Grade Type: Grade or pass/no pass
Recommended Preparation:
CHS 001: Introduction to Early Childhood
CHS 002: Child Growth and Development
CHS 060: Children’s Ways of Thinking and Knowing
CHS 063: Child, Family, and Community
CHS 066: Child Safety, Health and Nutrition
CHS 080: Curriculum Principles and Practices
CHS 087: Methods of Observation

This course is designed for students who are preparing to work in an early childhood program that have completed the majority of the coursework required for an Early Childhood certificate. It focuses on integrating and applying knowledge and understanding of the processes of child growth and development to group settings with young children. Students are required to participate as lab students in the Child Development Centers at West Valley College which supports a play-based emergent curriculum.

Course ID: CHS 034B
Course Title: Inclusion of the Child With Special
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade or pass/no pass
Recommended Preparation:
CHS 034A: Introduction to the Child With Special
This course focuses on the theories, research, and practical applications from the fields of both early childhood education and special education. This course is designed for students who have experience working with or prior knowledge of children with special needs. Topics include curriculum modification strategies to facilitate the development of cognitive, motor, social/emotional, and language skills in children with special needs. Specific attention is placed on developing plans, collaborative teaching systems, and methods for working with paraprofessionals and parents of children with special needs.

**Course ID: CHS 052**
Course Title:
Principles and Practices for School-Age Programs
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade or pass/no pass
Prerequisite NONE

This course focuses on program development and curriculum planning for the school-age child. Topics include developmentally appropriate practice, technology, field trips, parent involvement, and professional staff development. This course is specifically designed for students who are preparing to work with school-age children in a variety of after-school, recreation, and summer day camps.

**Course ID: CHS 059**
Course Title:
Music and Movement for Young Children
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade or pass/no pass
Prerequisite NONE

This course presents an overview of developmentally appropriate music and movement experiences for young children from birth through age 8. Topics include music in the classroom, singing and the human voice, children’s exploration of musical instruments, movement and motor development, instructional approaches to music and movement curriculum development, cultural influences, integrating music and movement into other curricular areas, and leading games and circle time.

**Course ID: CHS 070**
Course Title:
Infant/Toddler Development & Care
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade or pass/no pass
Prerequisite NONE
This course covers infant/toddler development to age three, with an emphasis on physical, emotional, social, and cognitive development. Other topics include program planning based on the understanding of development needs and observation of individual infants and the application of theories to practical implementation. This course fulfills state requirements for infant/toddler care.

Course ID: CHS 087
Course Title: Methods of Observation
Units: 3
Lecture: 3
Laboratory: 0
Laboratory Hours By Arrangement: 1 Hour
Grade Type: Grade or pass/no pass
Recommended Preparation:
CHS 002: Child Growth and Development

This course is an in-depth study of techniques to observe and record behavior in educational settings. Emphasis is on the observation of behavior as an integral element within the contexts of the developmental interaction and emergent curriculum models.

Course ID: COUNS 050
Course Title: Cross-Cultural Perspectives
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade or Pass/No Pass
Prerequisite NONE

This course explores cross-cultural theories and research relative to personal and cultural identity, communication styles, value orientation, leadership styles, social justice, cultural assimilation, the family, health care, and education, the world of work, media in the United States, ethnocentrism and racism. This course is integrative and comparative and addresses race, gender, class and ethnicity within the U.S. Cultures examined include African American, Latino/Chicano, Japanese American, Chinese American, Vietnamese American, Native American, and Middle Eastern.

Course ID: ENGL 001B
Course Title: English Composition
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade Only
Prerequisite:
ENGL 001A: English Composition
Co requisite (Course required to be taken concurrently):
English 992

English 1B introduces students to literary analysis with an emphasis on critical thinking, reading, and writing. Students read, discuss, and compose analytic essays about literary texts (such as short
fiction, poetry, drama, and novels) from diverse cultures. This course covers formal and informal fallacies of language and thought, and the principles of inductive and deductive reasoning. Students conduct research, study literary criticism, and write research essays that synthesize multiple sources. This course fulfills the critical thinking requirement for CSU transfer and is also offered in an online format.

**Course ID: ENGL 018**

Course Title: Asian American Literature
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade or pass/no pass
Recommended Preparation:
ENGL 001A: English Composition

This course provides a cross-cultural comparative study of the literary works of several Asian American authors. Through their works, students have the opportunity to learn and inhabit not only the literature, but also the history, culture, customs, and traditions of at least four of the following Asian American communities: Chinese, Japanese, Korean, Filipino, Vietnamese, Indian, and other southeast Asians and Pacific Islanders.

**Course ID: ENGL 049**

Course Title: Modern Fiction
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade Only
Recommended Preparation:
ENGL 001A: English Composition

This course focuses on reading and analyzing fiction from the Modern Period (1895-1945). It also covers Pre-modern literary movements and Postmodern texts. It fulfills general education requirement for literature.

**Course ID: ENGL 070**

Course Title: Creative Writing
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade or Pass/No Pass
Prerequisite:
ENGL 001A: English Composition

This course provides an introduction to the practice and study of the craft involved in writing fiction and poetry. The course also includes the analysis and critical examination of the works of various professional writers and student writers during class workshops.
**Course ID:** ENGL 071  
**Course Title:** Intermediate Fiction Writing  
Units: 3  
Lecture: 3  
Laboratory: 0  
Grade Type: Grade or Pass/No Pass  
Prerequisite:  
ENGL 001A: English Composition  
Recommended Preparation:  
ENGL 070: Creative Writing

This course provides instruction in writing fiction at the intermediate level. Students write short stories or several chapters of a novel at a more sophisticated level by more fully developing the elements of fiction in their writing. Students in this course also analyze and critique each other’s work in the workshop format. This course may be of interest to students with the goal of further improving creative writing skills, or creating a portfolio prior to transferring to a 4-year program in creative writing.

**Course ID:** ENGL 072  
**Course Title:** Intermediate Poetry Writing  
Units: 3  
Lecture: 3  
Laboratory: 0  
Grade Type: Grade or pass/no pass  
Recommended Preparation:  
ENGL 070: Creative Writing  
Prerequisite:  
ENGL 001A: English Composition

This course provides instruction in writing poetry at the intermediate level. Students write poems at a more sophisticated level by more fully developing the elements of poetry in their writing. Students in this course also analyze and critique each other’s work in a workshop format. This course may be of interest to students with the goal of further improving their creative writing skills, or creating a portfolio prior to transferring to a 4-year program in creative writing.

**Course ID:** ENGR 003A  
**Course Title:** Basic Technical Drafting  
Units: 2  
Lecture: 1  
Laboratory: 1  
Grade Type: Grade or Pass/No Pass  
Prerequisite NONE

This course is a study of basic technical drafting methods applied to the engineering field. This course covers drafting tools and materials, fundamentals of freehand sketching, pictorial drawing, orthographic projection, auxiliaries, sections, and dimensioning. Students have opportunities to develop working drawing techniques and methods of graphical communication.
Course ID: ENGR 003B
Course Title: Intermediate Technical Drafting
Units: 3
Lecture: 2
Laboratory: 1
Grade Type: Grade or Pass/No Pass
Recommended Preparation:
MATH 103: Elementary Algebra
, or
MATH 103R: Elementary Algebra
, and
ENGR 003A: Basic Technical Drafting

This course is a study of intermediate technical drafting methods applied to the engineering field. This course covers drafting practices in multi-view orthographic projections, sections, primary auxiliaries, dimensioning, freehand sketching, and lettering.

Course ID: ENGR 003C
Course Title: Advanced Technical Drafting
Units: 3
Lecture: 2
Laboratory: 1
Grade Type: Grade or Pass/No Pass
Recommended Preparation:
ENGR 003B: Intermediate Technical Drafting
MATH 106: Intermediate Algebra
MATH 106R: Intermediate Algebra

This course is a study of advanced technical drafting methods applied to the engineering field. This course covers advanced techniques of the orthographic projection, secondary auxiliaries, threads and fasteners, revolutions, developments & intersections, dimensioning & tolerance, and axonometric projection.

Course ID: ENGR 004
Course Title: Introduction to Computer-Aided Design
Units: 3
Lecture: 2
Laboratory: 1
Grade Type: Grade or Pass/No Pass
Recommended Preparation:
MATH 902: Arithmetic Functions
or
MATH 902P: Pre-Algebra

This course is an introduction to 2 dimensional and isometric computer-aided drafting using AutoCAD on the PC. It is designed for students with no computer experience and dual listed with ID 65.
Course ID: ENGR 005
Course Title: Advanced Computer-Aided Design
Units: 3
Lecture: 2
Laboratory: 1
Grade Type: Grade or Pass/No Pass
Prerequisite:
DRAFT 073: Introduction to Computer-Aided Design
or
ENGR 004: Introduction to Computer-Aided Design
or
ID 065: Auto Cad - Intro to Computer-Aided
Recommended Preparation:
MATH 902: Arithmetic Functions
MATH 902P: Pre-Algebra

This course provides an opportunity for students to use concepts acquired in ID 65 or ENGR 004 in a more complex way. Advanced topics in the construction of two and three dimensional drawing and solid modeling are addressed. This course is cross listed with ID 66.

Course ID: ENGR 006
Course Title: Engineering Problem Solving Using Matlab
Units: 4
Lecture: 3
Laboratory: 1
Grade Type: Grade or Pass/No Pass
Recommended Preparation:
MATH 106: Intermediate Algebra
or
MATH 106R: Intermediate Algebra

This course involves solving engineering problems using MATLAB. The course includes: relational/logical operators, scripting and file management for implementing solutions.

Course ID: FD 065
Course Title: Patternmaking III
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade or pass/no pass

Prerequisite:
FD 062: Professional Patternmaking II

The students have the opportunity to learn the methods of transferring a first sample pattern into a production pattern. Students are also given the opportunity to learn to draft patterns for men, women, and children while concentrating on garment fit for a variety of body types and size ranges. Cost effective designs are stressed.

Course ID: FRNCH 011A
Course Title: French Laboratory  
Units: 0.5  
Lecture: 0  
Laboratory: 0.5  
Grade Type: Grade or Pass/No Pass  
Prerequisite NONE

This is a laboratory course in which students work at their own pace. It is designed to give students an opportunity to improve and reinforce their language skills. It reviews the cultures of the French-speaking countries using language computer programs, and through a variety of technologies, media, Internet research, and films. The course is a requirement for students enrolled in French 001A, and is designed to further enhance class material. FRNCH 011A may also be taken independently by students who are not enrolled in a foreign language course. It may be repeated twice for credit.

Course ID: FRNCH 011B  
Course Title: French Laboratory  
Units: 0.5  
Lecture: 0  
Laboratory: 0.5  
Grade Type: Grade or Pass/No Pass  
Prerequisite NONE

This is a laboratory course in which students work at their own pace. It is designed to give students an opportunity to improve and reinforce their language skills. It reviews the cultures of the French-speaking countries using language computer programs, and through a variety of technologies, media, Internet research, and films. The course is a requirement for students enrolled in French 001B, and is designed to further enhance class material. FRNCH 011B may also be taken independently by students who are not enrolled in a foreign language course. It may be repeated twice for credit.

Course ID: HIST 004A  
Course Title: History of Western Civilization  
Units: 3  
Lecture: 3  
Laboratory: 0  
Grade Type: Grade Only  
Prerequisite NONE

History 4A is a survey of the political, economic, social, cultural and religious development of western civilization from prehistoric times through the Protestant Reformation. Subject areas include Mesopotamia, Egypt, the Old Testament, Greece, Rome, and The Middle Ages, the rise of Christianity, the Renaissance and Protestant Reformation.

Course ID: HIST 004B  
Course Title: History of Western Civilization  
Units: 3
History 004B is a survey of the political, social, economic and cultural development of western civilization from 1600 to the present. The course starts with the English Revolution, the Scientific Revolution/Enlightenment and the French revolution. Next comes, the rise of nationalism, socialism, and imperialism in the 19th century, while World Wars I and II, the Russian Revolution, fascism/Nazism, the Cold War and the contemporary age are features for the 20th and 21st centuries.

**Course ID: HIST 032**
Course Title: Survey of Russia
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade Only
Prerequisite NONE

This course is a survey of Russian history from Kiev, Russia, to the present, with emphasis on major political, social, intellectual, and economic movements in the pre- and post-Revolutionary periods.

**Course ID: ID 029B**
Course Title: Sustainable Design Materials and Resources
Units: 1
Lecture: 1
Laboratory: 0
Grade Type: Grade or pass/no pass

Recommended Preparation:
ID 029: Principles of Green Design
or
ID 029A: Introduction to Sustainable Design
This course provides an in-depth look at finish materials and specifications, waste management, reuse, recycle, renovation, historical preservation techniques, local product selection, and job site management.

**Course ID: ID 029D**
Course Title: Sustainable Design for Commercial Projects
Units: 1
Lecture: 1
Laboratory: 0
Grade Type: Grade or pass/no pass

Recommended Preparation:
ID 029: Principles of Green Design
or
ID 029A: Introduction to Sustainable Design
ID 060: Commercial Design

This course covers all aspects of sustainable design for commercial tenant improvements in existing office buildings and covers existing building operations and maintenance.

**Course ID: ID 029E**
Course Title:
Sustainable Design Construction Technologies
Units: 1
Lecture: 1
Laboratory: 0
Grade Type: Grade or pass/no pass

Recommended Preparation:
ID 029: Principles of Green Design
or
ID 029A: Introduction to Sustainable Design
ID 060: Commercial Design
or
ID 040: Residential Design

This course provides an in depth look at sustainable alternative building technologies, SIPS, modular systems, straw bale, rammed earth, site locations, and site restoration, as well as alternative building systems powered by wind and solar, geo thermal, etc. Cutting edge technologies are explored that can most easily be applied to new construction projects.

**Course ID: ID 029F**
Course Title:
Sustainable Design Practices
Units: 1
Lecture: 1
Laboratory: 0
Grade Type: Grade or pass/no pass
Prerequisite:
ID 029: Principles of Green Design
or
ID 029A: Introduction to Sustainable Design
ID 029B: Sustainable Design Materials and Resources
and
ID 029C: Sustainable Design for Residential Projects
or
ID 029D: Sustainable Design for Commercial Projects

Recommended Preparation:
This is a practical application class that incorporates knowledge and skills learned in the previous classes. Student teams develop a step-by-step plan for a project start-up that ensures sustainable goals are clear and can be achieved from the onset.

**Course ID: ID 055**
Course Title: Interior Design Estimating and Costing
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade Only
Prerequisite:
ID 025: Interior Finish Materials,
Recommended Preparation:
MATH 902: Arithmetic Functions
MATH 902P: Pre-Algebra

This course covers the processes and techniques of estimating and specifying materials related to finishing and furnishings of interior spaces, including window treatments, wall treatments, floor treatments, upholstery, furniture and other architectural surfaces.

**Course ID: ID 075**
Course Title: Lighting Design
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade or pass/no pass
Prerequisite:
ID 015: Interior Architectural Drafting
Recommended Preparation:
ID 020: Color Theory and Application
MATH 902: Arithmetic Functions
MATH 902P: Pre-Algebra

This course covers the theory and practice of lighting design and development of plans with the light fixture specifications.

**Course ID: ITAL 011A**
Course Title: Italian Laboratory
Units: 0.5
Lecture: 0
Laboratory: 0.5
Grade Type: Grade or Pass/No Pass
Prerequisite NONE

This is a laboratory course in which students work at their own pace. It is designed to give students an opportunity to improve and reinforce their language skills. It reviews Italian culture using language computer programs, and through a variety of technologies, media, Internet research, and films. The course is a requirement for students enrolled in Italian 001A, and is designed to further enhance class material. ITAL 011A may also be taken independently by students who are not enrolled in a foreign language course. It may be repeated twice for credit.

Course ID: ITAL 011B
Course Title: Italian Laboratory
Units: 0.5
Lecture: 0
Laboratory: 0.5
Grade Type: Grade or Pass/No Pass
Prerequisite NONE

This is a laboratory course in which students work at their own pace. It is designed to give students an opportunity to improve and reinforce their language skills. It reviews the Italian culture using language computer programs, and through a variety of technologies, media, Internet research, and films. The course is a requirement for students enrolled in ITAL 001A, and is designed to further enhance class material. ITAL 011A may also be taken independently by students who are not enrolled in a foreign language course. It may be repeated twice for credit.

Course ID: HIST 032
Course Title: Survey of Russia
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade Only
Prerequisite NONE

This course is a survey of Russian history from Kiev, Russia, to the present, with emphasis on major political, social, intellectual, and economic movements in the pre- and post-Revolutionary periods.

Course ID: LEAD 030A
Course Title: Transition to Leadership
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade Only
Prerequisite NONE

This course studies and challenges the conventional view of leadership which emphasizes positional power and conspicuous accomplishment. It examines the application of ethics to leadership - articulating a vision and initiating change.
**Course ID:** LS 942  
**Course Title:** Development of Effective Reading Skills  
**Units:** 3  
**Lecture:** 3  
**Laboratory:** 0  
**Grade Type:** Grade Only  
**Prerequisite:**  
- LS 932: Effective Reading Strategies  
or  
- READ 960: Reading Fundamentals  

This course is designed to prepare students who have reading difficulties for college level reading. It stresses the practical application of reading strategies to improve vocabulary and reading comprehension. This course is equivalent to Reading 961.

**Course ID:** MATH 010  
**Course Title:** Elementary Statistics  
**Units:** 3  
**Lecture:** 3  
**Laboratory:** 0  
**Grade Type:** Grade Only  
**Prerequisite:**  
- MATH 106: Intermediate Algebra  
or  
- MATH 106R: Intermediate Algebra  
or qualifying score on Placement Test and proof of Algebra II  

This course covers descriptive and inferential statistics including data analysis, correlation, linear regression, probability, probability distributions, parameter estimation and hypothesis testing. Particular emphasis will be placed on applications.

**Course ID:** MATH 000D  
**Course Title:** Trigonometry  
**Units:** 3  
**Lecture:** 3  
**Laboratory:** 0  
**Grade Type:** Grade Only  
**Prerequisite:**  
- MATH 104: Plane Geometry  
and  
- MATH 106: Intermediate Algebra  
or  
- MATH 106R: Intermediate Algebra  
or qualifying score on Placement Test and proof of Geometry and Algebra II  

This course covers trigonometric functions including applications to right triangles, circular functions, radian measure, graphs, trigonometric identities, inverse trigonometric functions, vectors & complex numbers.
Course ID: MATH 000G
Course Title: Mathematics for the Liberal Arts Student
Units: 4
Lecture: 4
Laboratory: 0
Grade Type: Grade Only
Prerequisite:
MATH 106: Intermediate Algebra
or
MATH 106R: Intermediate Algebra

This course introduces students to creative mathematical thinking and problem solving. Topics include logic, geometry, applications of exponential and logarithmic functions, and the mathematics of probability and statistics. It is intended to provide a survey of current mathematical techniques for the non-specialist.

Course ID: MATH 001
Course Title: Pre-Calculus Algebra
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade Only
Prerequisite:
MATH 106: Intermediate Algebra
or
MATH 106R: Intermediate Algebra
or qualifying score on Placement Test and proof of Algebra II

This course is designed to adequately prepare students for the calculus sequence. Its contents include real and complex number systems, polynomials, algebraic fractions, exponents and radicals, linear and quadratic equations, simultaneous equations, inequalities, functions, theory of equations, exponential and logarithmic equations, sequences and series, induction and the binomial theorem.

Course ID: MATH 003A
Course Title: Calculus and Analytical Geometry
Units: 5
Lecture: 5
Laboratory: 0
Grade Type: Grade Only
Prerequisite:
MATH 001: Pre-Calculus Algebra
and
MATH 000D: Trigonometry
or
MATH 002: Pre-Calculus Algebra and Trigonometry
or qualifying score on Placement Test and proof of Pre-Calculus and Trigonometry
This course covers functions, limits continuity, differentiation, maxima and minima, the beginning of integration, and the relationship between calculus and analytic geometry for elementary functions. The graphical and numerical capabilities of computers and calculators are used to enhance learning.

**Course ID: MATH 003B**
Course Title: Calculus and Analytical Geometry
Units: 5
Lecture: 5
Laboratory: 0
Grade Type: Grade Only
Prerequisite: MATH 003A: Calculus and Analytical Geometry or qualifying score on Placement Test and proof of Calculus I

This course covers the derivative and integrals for logarithmic, exponential, trigonometric, inverse trigonometric, hyperbolic functions and infinite series, as well as their applications to conic sections, polar coordinates and parametric equations.

**Course ID: MATH 004C**
Course Title: Linear Algebra
Units: 4
Lecture: 4
Laboratory: 0
Grade Type: Grade Only
Prerequisite: MATH 003B: Calculus and Analytical Geometry or qualifying score on Placement Test and proof of Calculus II

This course covers basic linear algebra and its applications. Topics include systems of linear equations and Gaussian elimination, matrix algebra, determinants, vector spaces, eigenvalues and eigenvectors, orthogonality and the Gram-Schmidt process, and diagonalization.

**Course ID: MATH 008**
Course Title: Finite Mathematics
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade Only
Prerequisite: MATH 106: Intermediate Algebra or MATH 106R: Intermediate Algebra or qualifying score on Placement Test and proof of Algebra II
This course covers linear equations, systems of equations and inequalities, linear programming, set theory, elements of probability, mathematics of finance, and Markov chains. Particular emphasis is placed on applications.

**Course ID: MATH 012**
Course Title: Applied Calculus
Units: 4
Lecture: 4
Laboratory: 0
Grade Type: Grade Only
Prerequisite:
MATH 106: Intermediate Algebra
or
MATH 106R: Intermediate Algebra
or qualifying score on Placement Test and proof of Algebra II

This course covers simple techniques of differential and integral calculus and their most common applications. This course also handles the limit concept intuitively and is suitable for business, social science and life science majors. It is not equivalent to Math 3A.

**Course ID: MATH 014**
Course Title:
Math for Elementary School Teachers
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade Only
Prerequisite:
MATH 106: Intermediate Algebra
or
MATH 106R: Intermediate Algebra
or qualifying score on placement test and proof of Algebra II.

This course covers the real number system, numeration system, elementary number theory, and problem solving. Technology and hands-on experiences are integrated throughout this course. It is designed to fulfill the lower division mathematics requirement for students planning to enter a multiple subject teaching credential program.

**Course ID: MATH 103**
Course Title:
Elementary Algebra
Units: 5
Lecture: 5
Laboratory: 0
Grade Type: Grade Only
Prerequisite NONE
This course covers the basic operations and properties of real numbers, polynomials, and radicals, rational and exponential expressions. Other topics include first-degree equations and inequalities, simultaneous systems of linear equations, quadratic equations, and graphing. The course is designed for students who have no previous instruction in algebra or who have difficulty with algebra or who need a review of elementary algebra.

**Course ID: MATH 103R**
Course Title: Elementary Algebra
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade Only
Prerequisite NONE

The content of this course is identical to that of Math 103. However, this course should be taken by students who have previously completed elementary algebra, but who need a review before taking intermediate algebra.

**Course ID: MATH 104**
Course Title: Plane Geometry
Units: 4
Lecture: 4
Laboratory: 0
Grade Type: Grade Only
Prerequisite:
MATH 103: Elementary Algebra
or
MATH 103R: Elementary Algebra
or qualifying score on Placement Exam

This course covers the basic concepts of plane geometry with an emphasis on deductive reasoning. The topics include lines, angles, polygons, circles, congruence, similarity, parallelism, perpendicularity, lengths, areas and volumes.

**Course ID: MATH 106**
Course Title: Intermediate Algebra
Units: 5
Lecture: 5
Laboratory: 0
Grade Type: Grade Only
Prerequisite:
MATH 103: Elementary Algebra
or
MATH 103R: Elementary Algebra
or qualifying score on Placement Test;
This course reviews topics from elementary algebra and also covers functions, including logarithmic and exponential, and complex numbers.

**Course ID:** MATH 106R  
**Course Title:** Intermediate Algebra  
**Units:** 4  
**Lecture:** 4  
**Laboratory:** 0  
**Grade Type:** Grade Only  
**Prerequisite:**  
MATH 103: Elementary Algebra  
or  
MATH 103R: Elementary Algebra  
or qualifying score on Placement Test

This accelerated course reviews topics from elementary algebra and also covers functions, including logarithmic and exponential, and complex numbers. This course is designed for students who have had previous instruction in intermediate algebra.

**Course ID:** MATH 902  
**Course Title:** Arithmetic Functions  
**Units:** 3  
**Lecture:** 3  
**Laboratory:** 0  
**Grade Type:** Grade or pass/no pass  
**Prerequisite:** NONE

This course is a review and practice of fundamental arithmetic skills, problem analysis, problem solving, and practical applications.

**Course ID:** MATH 902P  
**Course Title:** Pre-Algebra  
**Units:** 3  
**Lecture:** 3  
**Laboratory:** 0  
**Grade Type:** Grade or pass/no pass  
**Prerequisite:** NONE

This course is designed for students who have a solid foundation in arithmetic skills but who need to develop further skills before taking elementary algebra. This course is intended to serve as a bridge between arithmetic functions and elementary algebra. Topics include operations with signed numbers, evaluating algebraic expressions, operations with polynomials, solving and graphing linear equations, and developing problem-solving skills with an emphasis on concrete representations for abstract algebraic concepts.

**Course ID:** MATH 903P
Course Title: Preparation for Elementary Algebra
Units: 0.5
Lecture: 0
Laboratory: 0.5
Grade Type: Pass/no pass
Prerequisite NONE

This course is a preparation for Math 103. In this course, students have the opportunity to develop the appropriate entry-level math and study skills needed in Elementary Algebra by using a web-based computer algebra system.

Course ID: PE 3.20
Course Title: Ballroom and Latin Dance Beginning
Units: 1
Lecture: 0
Laboratory: 1
Grade Type: Grade/Credit/No Credit
Prerequisite NONE

This course focuses on beginning Ballroom and Latin dance techniques and performance. Beginning level steps and performance techniques from Salsa, Swing, Tango, Waltz, Rumba, Cha-Cha, Foxtrot, Merengue, Night Club 2-Step, and other currently popular dances are covered.

Course ID: PE 3.22
Course Title: Ballroom and Latin Dance - Intermediate
Units: 1
Lecture: 0
Laboratory: 1
Grade Type: Grade/Credit/No Credit
Recommended Preparation:
Previous Ballroom and Latin Dance experience is recommended.

This course focuses on intermediate Ballroom and Latin dance techniques and performance. Intermediate level steps and performance techniques from the Salsa, Swing, Tango, Waltz, Rumba, Cha-cha, Samba, Viennese Waltz, Foxtrot, Night Club 2-Step, West Coast Swing and other currently popular dances are covered. Previous Ballroom and Latin Dance experience is recommended.

Course ID: PE 4.19
Course Title: Fitness Appraisal
Units: 1
Lecture: 0.5
Laboratory: 0.5
Grade Type: Grade or pass/no pass
Prerequisite NONE
This course is designed to provide an increased self awareness of personal fitness levels and fitness concepts through pre and post fitness testing. It includes theories of fitness, lifestyle change, nutrition, weight management, and the development of a personal exercise program.

**Course ID: PE 7.23**  
Course Title: Scuba Diving  
Units: 2  
Lecture: 1.5  
Laboratory: 0.5  
Grade Type: Grade Only  
Prerequisite NONE

This course provides the opportunity for students to learn the knowledge and skills of SCUBA Diving. Satisfactory completion of this course can lead to international SCUBA certification. Basic swimming proficiency is recommended.

**Course ID: PE 7.24**  
Course Title: Scuba Diving-Advanced  
Units: 2  
Lecture: 1.5  
Laboratory: 0.5  
Grade Type: Grade Only  
Recommended Preparation: Recommended internationally recognized certification as an open water SCUBA Diver.

This course provides the opportunity for students to improve knowledge and skills of SCUBA and Marine Diving Technology. Satisfactory completion of this course can meet lead to international SCUBA certification in Advanced, Rescue and Nitrox. It is recommended that students have an internationally recognized certification as an open water SCUBA Diver prior to taking this course.

**Course ID: PHOTO 010**  
Course Title:  
New Media and Social Change  
Units: 3  
Lecture: 3  
Laboratory: 0  
Grade Type: Grade Only  
Prerequisite NONE

This course investigates how web-based technologies, internet multi-media, and photography have assisted in causing social change. Analytical explorations of the effects of web-based visual media on race, gender, religion, sexual orientation, culture and ethnicity are explored ranging from social documentary photography to multi-media documentaries, contemporary art photography, photojournalism, social media, and blogs.

**Course ID: PHOTO 020A**  
Course Title:  
Studio Photography-Portraiture  
Units: 2
This studio portrait lighting course introduces the students to basic portrait lighting. Setups demonstrated are: one, two, and three light arrangements. This course also explores different kinds of light sources, as well as qualities and colors of light necessary to photographing people. The theory of color balance, filtration, and post production techniques are also explored.

Course ID: PHOTO 020B
Course Title: Intermediate Studio Photography
Units: 2
Lecture: 1
Laboratory: 1
Grade Type: Grade Only
Prerequisite:
PHOTO 001: Basic Photography
and
PHOTO 020A: Studio Photography-Portraiture

The course builds upon the skills and techniques taught in Photo 20A and offers new concepts such as: Half, three quarter and full-length portraits, family groups, location portraits, Executive and children portraiture, in-camera vignetting and diffusion. The student must supply their own adjustable focus and exposure camera and all expendable photographic supplies used in the course.

Course ID: PHYS 002A
Course Title: Introduction of Physics Problem Solving
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade Only
Prerequisite:
MATH 000D: Trigonometry or
MATH 002: Pre-Calculus Algebra and Trigonometry
Recommended Preparation:
PHYS 001: Introduction to Physics Problem Solving

This course is designed specifically to prepare students for Physics 2A or Physics 4A. It covers basic principles/concepts in classical mechanics and introduces problem-solving skills that may be applied to a wide variety of problems.

Course ID: PHOTO 021A
Course Title: Studio Photography-Product Lighting
PHOTO 001: Basic Photography
This beginning product lighting class gives the student the opportunity to learn basic lighting techniques for tabletop product photography. Different lighting arrangements for metal, glass, fabric and food are demonstrated by the instructor, and students have the opportunity for hands on exploration. Color theory, color balance and the use of color are examined.

Course ID: PHOTO 021B
Course Title: Intermediate Studio Photography Product Lighting
Units: 2
Lecture: 1
Laboratory: 3
Grade Type: Grade Only
Prerequisite:
PHOTO 001: Basic Photography
PHOTO 021A: Studio Photography-Product Lighting

The course builds upon the skills and techniques explored in Photo 21A and offers new concepts such as digital masking, drop-out backgrounds, and "floating" products. Larger light arrangements are explored with careful considerations to color, and quality of light. These larger sets require advanced light shaping techniques, and solutions to describe a variety of surfaces.

Course ID: PHYS 002A
Course Title:
General Physics -- Mechanics
Units: 5
Lecture: 4
Laboratory: 1
Grade Type: Grade Only
Prerequisite:
MATH 000D: Trigonometry or
MATH 002: Pre-Calculus Algebra and Trigonometry
Recommended Preparation:
PHYS 001: Introduction to Physics Problem Solving

This is a trigonometry-based first course in Physics for majors in subjects other than engineering or the physical sciences. The course covers mechanics (motion, forces, torques, energy, momentum, angular momentum, and rotation), thermodynamics, fluid mechanics and sound. Concepts and problem solving are emphasized.

Course ID: PHOTO 101
Course Title:
Basic Digital Photography
In this course students have the opportunity to explore the basic theory and principles of photography. This black and white digital photography course covers basic camera operation, composition, basic optics, camera exposure, filters, artificial light and archiving prints and digital files. This course offers students the opportunity to gain a solid understanding of the photographic process through the use of today's digital tools. Students are required to supply their own digital single lens reflex camera, and purchase expendable supplies needed for the course.

Course ID: PKMGT 010
Course Title:
Introduction to Park Management
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade Only
Prerequisite NONE

This course provides an introduction to public land management and the history of environmental thought. The student has the opportunity to learn about the variety of city, county, state, regional open space, and federal land management agencies. The student also has the opportunity to learn about jobs in this career field.

Course ID: PKMGT 011
Course Title:
Park Communications
Units: 2
Lecture: 2
Laboratory:
Grade Type: Grade Only
Prerequisite NONE

This specialized course explores techniques for improving communication skills with the public, colleagues, and other agencies and organizations. Emphasis is placed on developing strong interpersonal, oral, and written communication skills within the context of natural and cultural resource agencies.

Course ID: PKMGT 020A
Course Title:
Park Internship Seminar
Units: 3
Lecture: 1
Laboratory: 2
Grade Type: Grade Only
Prerequisite:
In this course, students apply the knowledge and skills acquired in the program through an internship at a selected park. The students, park supervisor, and faculty agree upon and establish objectives that students achieve during this practical experience in park operations. Students focus on two of four benchmarks. One hundred and four work hours per semester are required.

Course ID: PKMGT 020B
Course Title: Park Internship Seminar
Units: 3
Lecture: 1
Laboratory: 2
Grade Type: Grade Only

Prerequisite:
PKMGT 010: Introduction to Park Management
PKMGT 013: Wildland Fire Suppression
PKMGT 014: Conservation of Our Natural Resources
Recommended Preparation:
PKMGT 015B: Natural and Cultural Resource
PKMGT 015C: Introduction to Park Maintenance

The students apply knowledge/skills learned in the program through an internship at a selected park. The students, park supervisor, and the faculty agree upon and establish objectives that the students accomplish during this practical experience in park operations. The two benchmarks that were not achieved in the previous internship are achieved in this course. One hundred and four hours/semester are required.

Course ID: PKMGT 091
Course Title: Directed Studies
Units: 1
Lecture: 0
Laboratory: 0
Hours by Arrangement: 3
Grade Type: Grade or pass/no pass
Prerequisite NONE

This course provides the opportunity to engage in independent work of special interest to the student related to but not included in regular park management program offered by the college.

Course ID: PKMGT 092
Course Title:
Directed Studies
Units: 2
Lecture: 0
Laboratory: 0
Hours by Arrangement: 6
Grade Type: Grade or pass/no pass
Prerequisite NONE

This course provides the opportunity to engage in independent work of special interest to the student related to but not included in regular park management program offered by the college.

Course ID: PKMG 093
Course Title:
Directed Studies
Units: 3
Lecture: 0
Laboratory: 0
Hours by Arrangement: 9
Grade Type: Grade or pass/no pass
Prerequisite NONE

This course provides the opportunity to engage in independent work of special interest to the student related to but not included in regular park management program offered by the college.

Course ID: PSCI 020
Course Title:
Weather and Climate
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade Only
Prerequisite NONE

This course studies local and global weather and climate and the processes that create them. Basic weather patterns, extreme weather and California weather are looked at in some detail.

Course ID: READ 960
Course Title: Reading Fundamentals
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade or pass/no pass
Prerequisite NONE

This course is designed to improve vocabulary and reading comprehension to prepare students to function at the college preparatory level.

Course ID: SPAN 011A
Course Title: Spanish Laboratory  
Units: 0.5  
Lecture: 0  
Laboratory: 0.5  
Grade Type: Grade or Pass/No Pass  
Prerequisite NONE

This is a laboratory course in which students work at their own pace. It is designed to give students an opportunity to improve and reinforce their language skills. It reviews the cultures of the Spanish-speaking countries using language computer programs, and through a variety of technologies, media, Internet research, and films. The course is a requirement for students enrolled in SPAN 001A, and is designed to further enhance class material. SPAN 011A may also be taken independently by students who are not enrolled in a foreign language course. It may be repeated twice for credit.

**Course ID: SPAN 011B**  
Course Title: Spanish Laboratory  
Units: 0.5  
Lecture: 0  
Laboratory: 0.5  
Grade Type: Grade or Pass/No Pass  
Prerequisite NONE

This is a laboratory course in which students work at their own pace. It is designed to give students an opportunity to improve and reinforce their language skills. It reviews the cultures of the Spanish-speaking countries using language computer programs, and through a variety of technologies, media, Internet research, and films. The course is a requirement for students enrolled in SPAN 001B, and is designed to further enhance class material. SPAN 011B may also be taken independently by students who are not enrolled in a foreign language course. It may be repeated twice for credit.

**Course ID: THEAR 018A**  
Course Title: Introduction to Stage Lighting  
Units: 3  
Lecture: 3  
Laboratory: 0  
Grade Type: Grade Only  
Prerequisite NONE

This is an introductory course in the theory, methods and application of stage lighting. The course involves the study of different approaches to light design, the study of the physics of stage lighting and color in light. The course also serves as an introduction to the lighting instruments themselves and the practical work involved in lighting a staged production.

**Course ID: THEAR 041B**  
Course Title: Intermediate Acting  
Units: 3  
Lecture: 3
This course provides continued advanced scene study through character and scene analysis, acting theory and technique. Students are introduced to Shakespearean literature and begin work with directorial technique as they continue their studies on both formal and informal auditions.

**Course ID: THEAR 044A**
Course Title: Makeup for Stage & Screen
Units: 3
Lecture: 3
Laboratory: 0
Grade Type: Grade or pass/no pass
Prerequisite NONE

This course is designed to introduce the student to the basic techniques and materials of stage and cinematic makeup. The student has the opportunity to gain an understanding of the process through actual makeup application in the classroom environment.

**Course ID: THEAR 070**
Course Title: Mainstage Production Workshop
Units: 3
Lecture: 0
Laboratory: 3
Grade Type: Grade Only
Prerequisite NONE

This course provides the student an opportunity to perform in a large proscenium style theatre. Blocking choices and vocal projection are key elements for study in the course. Students participate in rehearsals and regularly scheduled performances of plays and musicals. Admission to the course requires an audition.
PROGRAM OF STUDY
Certificate of Achievement in California State University General Education Certificate

The Certificate of Achievement in California State University General Education is designed for students who intend to complete university-level general education requirements prior to transfer to a California State university.

A minimum grade of C or better (or equivalent) is needed to meet AREA A1, A2, A3, and B4.

Students must complete a minimum of 39 units in the 5 categories listed below for transfer to CSU. Areas A1, A2, A3, and B4 must be completed with a grade of “C” or better. A course may only be counted once in areas A-E.

AREA A – BASIC SUBJECTS – LANGUAGE AND RATIONALITY
9 units minimum – one course from each area listed below (must have a “C” or better).
A1. Oral communication: Any 3-unit approved CSU General Education-B Area A1 course
A2. Written Communication: ENGL 1A or Any 3-unit approved CSU General Education-B Area A2 course
A3. Critical Thinking: Any 3-unit approved CSU General Education-B Area A3 course

AREA B – SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING
9 units minimum – one from Physical Sciences B1 and one from Biological Sciences and
at least one must be a lecture/laboratory class (laboratory classes are underlined) and one mathematics course.

AREA C – ARTS AND HUMANITIES
9 units minimum – must complete one course each from Arts and one course from Humanities, then a third course from either.

AREA D – SOCIAL SCIENCES
9 units minimum – complete one course from at least two different

AREA E – LIFELONG UNDERSTANDING AND SELF-DEVELOPMENT
3 units minimum - only 1 unit of PE allowed.

| Total Units | 39 |

PROGRAM OF STUDY
Certificate of Achievement in Intersegmental General Education Transfer Curriculum (IGETC) Certificate

The Certificate of Achievement in Intersegmental General Education Transfer Curriculum (IGETC) is designed for students who intend to complete university-level general education requirements prior to transferring to a California State University or University of California campus. This university-level general education path includes a variety of subject areas that students must complete in order to earn a degree regardless of major. The goal is to provide a well-rounded liberal education to develop skills, gain knowledge, and reflect on attitudes that together make up an educated person.

AREA 1 – ENGLISH COMMUNICATION
CSU – 3 courses required: one each from Group A, Group B, and Group C.
UC – 2 courses required: one each from Group A and Group B.
Group A: English Composition English 1A (One course of 3 semester or 4-5 quarter units) English 1A or any approved IGETC Group A course.
Group B: Critical Thinking – One course of 3 semester units from any approved IGETC Group B course.
Group C: Oral Communication (CSU requirement only) One course of 3 semester units - Any approved IGETC Group C course.
AREA 2 – MATHEMATICAL CONCEPTS and QUANTITATIVE REASONING
1 course of at least 3 semester units from any approved IGETC Area 2 course.

AREA 3 – ARTS and HUMANITIES
3 courses required, 9 semester units, at least one from Arts and one from Humanities and a third from Arts or Humanities.

AREA 4 – SOCIAL and BEHAVIORAL SCIENCES
3 courses required, 9 semester or 12-15 quarter units. The 3 courses are required from at least two different disciplines.

AREA 5 – PHYSICAL and BIOLOGICAL SCIENCES
2 courses required, 7-9 semester units. One course from Physical Science and one course from Biological Science- at least one course must include a laboratory.

Total Units 39-45

BUSINESS ADMINISTRATION Certificate

Rationale: Communication 17 – Effective Critical Listening has been deleted from the Business Leadership Skills Certificate because this course is no longer being offered at West Valley College. Since this certificate already offers a course in Business Communication, and this Business Communication covers effective critical listening skills, the certificate covers the necessary skill sets that students require.

This certificate covers the essential business activities involved in working in a variety of professional workplaces. A broad overview of general business areas is provided in Introductory to Business. Students also learn about marketing principles, human relations in business, and how business, the government and society interact. Students learn effective professional business communication techniques and strategies for the workplace.
BUSINESS LEADERSHIP SKILLS Certificate

Rationale: Communication 17 – Effective Critical Listening has been deleted from the Business Leadership Skills Certificate because this course is no longer being offered at West Valley College. Since this certificate already offers a course in Business Communication, and this Business Communication covers effective critical listening skills, the certificate covers the necessary skill sets that students require.

This certificate covers the essential business activities involved in being an effective leader in today's complex and diverse workplace. A broad overview of general business areas is provided in an introductory business course. Students also learn about human relations in business, and how business, the government and society interact. Students learn effective professional business communication techniques and strategies for the workplace.
**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS032</td>
<td>Leadership</td>
<td>3</td>
</tr>
<tr>
<td>BUS051</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS061</td>
<td>Business and Society</td>
<td>3</td>
</tr>
<tr>
<td>BUS066</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS078</td>
<td>Business Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units**

15

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**HUMAN RELATIONS IN BUSINESS Certificate**

Rationale: Communication 17 – Effective Critical Listening has been deleted from the Human Relations in Business Certificate because this course is no longer being offered at West Valley College. In order for this certificate to still count for fifteen units, Business 68 – Organizational Behavior will be offered in its place. Organizational Behavior is a comprehensive, reality based course that investigates and illustrates behavior patterns in organizations. This course will enhance student skill sets in the Human Relations area of business.

This certificate covers how to effectively manage interpersonal workplace relationships. A broad approach to maximizing human potential in order to address current and future challenges is also explained via teamwork and building commitments and trust in human relationships. Students also learn effective professional
business communication techniques and strategies for the workplace.

<table>
<thead>
<tr>
<th>Required Courses:</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS061 Business and Society</td>
<td>3</td>
</tr>
<tr>
<td>BUS066 Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS078 Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM012 Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>BUS068 Organizational Behavior</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units** 15

**LANDSCAPE ARCHITECTURE Associate of Science**

Rationale: The purpose of this program revision is to replace revised courses: ARCH 052, ARCH 077, and ARCH 084 with existing. Required electives have changed from 4 to 3 units. This degree now requires 48 units.

The Landscape Architecture Program at West Valley College is primarily a blend of art and science. Landscape Architecture focuses on natural systems and cultural processes in the planning, design, and management of sustainable landscapes for this and future generations. Students of Landscape Architecture are capable of solving complex environmental problems and are able to communicate effective solutions.

The Program in Landscape Architecture at West Valley College emphasizes a process-oriented approach to problem
solving while encouraging sensitivity toward community values and ecological principles. Students will develop creative ability and technical skills through a range of exercises and projects relating to recreation and open space planning, plant selection, park design, landscape reclamation and preservation, resource management, and urban planning and design, as well as learning applications for residential, commercial, and institutional landscape environments.

The program is recognized by the California State Board of Landscape Architects. Students are prepared for rewarding professional careers or transfers to advanced university programs. Graduates are employed in a wide range of important environmental and design-related roles.

**Students, upon completion of this AS Degree, may qualify for the following career paths as well as pursue a professional license:**

- Landscape Architects
- Resource Managers
- Designers
- Landscape Contractors
- Draftspersons
- Landscape Industry Representatives
- Planners

**Major Requirements: (45 Units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH050</td>
<td>Construction Materials &amp; Methods</td>
<td>3</td>
</tr>
<tr>
<td>ARCH051</td>
<td>Architectural Graphics: Drawing &amp; Sketching</td>
<td>3</td>
</tr>
<tr>
<td>ARCH053</td>
<td>Introduction to Architectural &amp; Environmental Design</td>
<td>3</td>
</tr>
<tr>
<td>ARCH054</td>
<td>Introduction to Architectural Desktop</td>
<td>3</td>
</tr>
<tr>
<td>ARCH056</td>
<td>Basic Architectural Design</td>
<td>3</td>
</tr>
<tr>
<td>ARCH057</td>
<td>Architectural Model Making</td>
<td>1</td>
</tr>
<tr>
<td>ARCH072</td>
<td>History of Landscape Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARCH073</td>
<td>Introduction to Landscape Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARCH074</td>
<td>Landscape Design I</td>
<td>3</td>
</tr>
<tr>
<td>ARCH075</td>
<td>Landscape Design II</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>ARCH076</td>
<td>Landscape Construction Technology</td>
<td>3</td>
</tr>
<tr>
<td>ARCH077</td>
<td>GIS Applications to Architecture &amp; Landscape Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARCH081</td>
<td>Landscape Plants: Summer &amp; Autumn</td>
<td>3</td>
</tr>
<tr>
<td>ARCH082</td>
<td>Landscape Plants: Winter &amp; Spring</td>
<td>3</td>
</tr>
<tr>
<td>ARCH083</td>
<td>Plant Composition</td>
<td>2</td>
</tr>
<tr>
<td>ARCH084</td>
<td>Sustainability in Landscape Architecture</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Electives: (minimum of 3 Units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH045</td>
<td>Architectural Building Codes</td>
<td>3</td>
</tr>
<tr>
<td>ARCH052</td>
<td>Architectural Graphics: Color Rendering</td>
<td>3</td>
</tr>
<tr>
<td>ARCH061</td>
<td>Architectural Design I</td>
<td>3</td>
</tr>
<tr>
<td>ARCH062</td>
<td>Architectural Design II</td>
<td>3</td>
</tr>
<tr>
<td>ARCH065</td>
<td>Advanced Architectural Desktop &amp; 3D Rendering</td>
<td>3</td>
</tr>
</tbody>
</table>

To be awarded an A.S. Degree, a student must:
1. Complete all the major requirements.
2. Complete required electives.
3. Earn a grade of “C” or better for all required courses.
4. Complete additional units to meet the college graduation requirements.

Note: The student should choose those general education requirements, which may apply both toward graduation requirements of the college and toward the bachelor’s degree requirements at the four-year institution to which he/she plans to transfer.

**Total Units** 48
Rationale: Communication 17 – Effective Critical Listening has been deleted from the Small Business Startup Certificate because this course is no longer being offered at West Valley College. This certificate already offers
Human Relations in Business and other course work that covers effective listening and team presentation skills that students require.

This certificate covers the various facets of planning for the opening of a small business and the managing of that small business after start-up. A broad overview of general business areas is provided as well as specific marketing, accounting, operations, management, and human relations approaches to small business practices. Students learn effective professional communication techniques and strategies for the workplace.

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS040</td>
<td>Sales Strategies</td>
<td>3</td>
</tr>
<tr>
<td>BUS054</td>
<td>Small Business Start Up and Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS056</td>
<td>Marketing Principles</td>
<td>3</td>
</tr>
<tr>
<td>BUS066</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>ACCTG050</td>
<td>Accounting for Small Business</td>
<td>1</td>
</tr>
<tr>
<td>ACCTG060</td>
<td>Accounting Fundamentals I--QuickBooks</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units** 16