How To Read Course Descriptions

1. Subject
2. Course number
3. Course Title
4. Course Number of Units
5. Course units breakdown
6. Necessary course and /or skills to take this class
7. Corequisite must be taken at the same time
8. Advisory
9. Acceptable for credit to UC/and or CSU
10. Course description

PSYC 002 EXPERIMENTAL PSYCHOPHYSIOLOGY

4 4 units
5 Lecture 3 units; lab 1 unit
6 Prerequisite: PSYC 001
7 Corequisite: MATH 010
8 Advisory: MATH 106/106R
9 Acceptable for credit: University of California, California State University
10 The course introduces the student to the theory and application of the scientific method with particular emphasis in the area of physiology and behavior. A computerized psychophysiology laboratory will be used to introduce students to...

Description of Courses

NOTES ON COURSE DESCRIPTIONS
Courses are offered to best meet student needs in completing educational goals.

TRANSFER CREDIT: Each college or university has its own numbering system. The West Valley College Catalog will indicate courses which are acceptable for elective unit credit at the University of California and California State University. The student should see the course description for acceptability of credit.

Acceptable for Credit: California State University, indicates that the course has been designated by West Valley College as a baccalaureate level class, and as such will be accepted for elective unit credit at the campuses of California State Universities.

Acceptable for credit: University of California, indicates that the class will be acceptable for elective unit credit at the campuses of the University of California.

For more specific information about the transfer of credit for courses, students are advised to see page 8 “Transfer Credit” and to consult a counselor. Refer to assist.org for up-to-date articulation.

• PREREQUISITES AND COREQUISITES are MANDATORY. See page 5 for specific information.
• Courses used to meet prerequisite requirements must have been completed with a grade of C or Pass or better.
Accounting

THE FACULTY
Randy R. Castello
Nancy Ghodrat
Jim Henderson

DIVISION:  Che School of Professional Studies
DEAN:  Renee Paquier
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Certificate:
Accounting Clerk

ACCOUNTING:
(Business Administration)  For transfer information see assist.org and/or consult with a counselor.

Certificate of Achievement

Accounting Clerk

The Accounting Clerk Certificate at West Valley College focuses on helping students develop bookkeeping and accounting clerk's skills using current accounting/bookkeeping software.

Upon completion of this certificate, students will be able to:
• Utilize current accounting software to compute, classify, and record numerical data to keep financial records complete for a business
• Successfully apply business communication and math skills in the office environment in which they will be performing bookkeeping and accounting tasks.

Prerequisite skills and courses include having an understanding of the accounting cycle for a business from transaction analysis to financial statement preparation and possessing clear and effective writing skills.

Possible job titles for certificate earners include but are not limited to auditor, bookkeeper, accounts receivable clerk, accounts payable clerk, and office manager. Certificate earners will be able to utilize current software to perform various accounting functions and will be able to apply the principles of business communications in a variety of business settings.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 060</td>
<td>Accounting Fundamentals Quickbooks</td>
<td>4</td>
</tr>
<tr>
<td>BUSN 046</td>
<td>Excelling With Excel</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 062</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 070</td>
<td>Effective Office Skills</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 078</td>
<td>Business Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Certificate Units: 16

For crosswalk of new subject codes, see page 61

Recommended Course Sequence:

Fall, Year 1 (3 Units):
BUSN 046, Prerequisites (ACCT 010 or 050, ENGL 001A), if necessary.

Spring, Year 1 (13 Units):
ACCT 060, BUSN 062, BUSN 070, BUSN 078

ACCT 010 FINANCIAL ACCOUNTING
5 units
Lecture 5 units; lab 0 units

Acceptable for credit: University of California, California State University
C-ID ACCT 110

This course is the study of accounting as an information system, examining why it is important and how it is used by investors, creditors, and others to make decisions. The course covers the accounting information system, including recording and reporting of business transactions with a focus on the accounting cycle, financial statements, statement analysis, and the application of generally accepted accounting principles. It also includes issues relating to asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls, and ethics.

ACCT 011 MANAGERIAL ACCOUNTING
5 units
Lecture 5 units; lab 0 units

Prerequisite: ACCT 010

Acceptable for credit: University of California, California State University
C-ID ACCT 120

This course is the study of how managers use accounting information in decision-making, planning, directing operations, and controlling. This class focuses on cost terms and concepts, cost behavior, cost systems, cost control, cost-volume-profit planning, and performance analysis in manufacturing and service environments. This class includes a discussion of ethical issues in a managerial accounting environment.

ACCT 050 ACCOUNTING FOR SMALL BUSINESS
1 unit
Lecture 1 unit; lab 0 units

This course is designed as a non-theoretical, practical approach to accounting with special emphasis on accounting for small service-oriented business entities. This includes the basic bookkeeping cycle, change fund and petty cash accounting, preparing bank reconciliations, and basic payroll accounting. Pass/No Pass Option

ACCT 060 ACCOUNTING FUNDAMENTALS: QUICKBOOKS
4 units
Lecture 4 units; lab 0 units

Prerequisite: ACCT 050 or ACCT 010

Advisory: Equivalent accounting experience

Acceptable for credit: California State University

This course is designed for students with prior accounting knowledge. The course covers the steps in the accounting process for a service and merchandising organization. Using the QuickBooks computerized accounting software package, students have an opportunity to learn practices for handling receivable, payable, and basic payroll transactions. Pass/No Pass Option

• ADVISORY is a recommended preparation, NOT a REQUIREMENT.
• This catalog is subject to change and may be incomplete. Please consult the addenda at westvalley.edu/catalog/
# Administration of Justice

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**DEGREES:**  
A.S.-T., Administration of Justice  
A.S., Administration of Justice: Law Enforcement

**ADMINISTRATION OF JUSTICE**  
(Justice Studies): Transfer  
See assist.org and/or consult with a counselor.

## ASSOCIATE IN SCIENCE IN ADMINISTRATION OF JUSTICE FOR TRANSFER DEGREE (AS-T in Administration of Justice)

The Associate in Science in Administration of Justice for Transfer degree (AS-T in Administration of Justice) is a 60 unit program which provides students the lower division coursework required for transfer to a CSU institution for the major in Criminal Justice and Justice Studies. Students completing the Associate in Science in Administration of Justice for Transfer degree (AS-T in Administration of Justice) will be able to:

- describe the individual functions and integrations of the components of the criminal justice system: police, courts, and corrections;  
- demonstrate skills and knowledge that allow them to successfully complete academic work at a transfer institution;  
- use legal research skills to locate, analyze, and discuss the content of statutory and case law;  
- examine criminal justice and/or social science data and explain their significance;  
- explain the underlying causes of antisocial and criminal behavior;  
- apply Constitutional principles to the practice of criminal justice;  
- articulate, either orally or in writing, concepts or theories applicable to the criminal justice system;  
- apply critical thinking to research, evaluate, analyze and synthesize the appropriate procedures for the collection of evidence and data in criminal case preparation for law enforcement agencies;  
- and develop, organize and write an objective report that meets the legal and detailed requirements of law enforcement agencies.

Students must complete the following requirements:

- 60 semester or 90 quarter CSU-transferable units  
- the California State University-General Education-Breadth pattern (CSU GE-Breadth) OR the Interssegmental General Education Transfer Curriculum (IGETC) pattern.  
- a minimum of 18 semester or 27 quarter units in the major or area of emphasis as determined by the community college district.  
- obtainment of a minimum grade point average (GPA) of 2.0.  
- earn a grade of C or better in all courses required for the major or area of emphasis.

Students are not required to complete the information competency requirements, PE requirements or cultural diversity requirements found in other degrees at the College.

### Course ID Title Units  
ADMJ 001 Introduction to Administration of Justice 3  
ADMJ 002 Concepts of Criminal Law 3

**List A: Complete 2 Courses (6 units)**

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADMJ 004</td>
<td>Legal Aspects of Evidence</td>
<td>3</td>
</tr>
<tr>
<td>ADMJ 005</td>
<td>Criminal Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ADMJ 008</td>
<td>Juvenile Procedures</td>
<td>3</td>
</tr>
<tr>
<td>ADMJ 021</td>
<td>Community Relations</td>
<td>3</td>
</tr>
<tr>
<td>ADMJ 041</td>
<td>Introduction to Forensics</td>
<td>3</td>
</tr>
<tr>
<td>ADMJ 100G</td>
<td>Introduction to Corrections</td>
<td>3</td>
</tr>
<tr>
<td>ADMJ 003</td>
<td>Principles &amp; Procedures of the Justice</td>
<td>3</td>
</tr>
</tbody>
</table>

**List B: Complete 2 courses (minimum of 6 units). Select any course from List A not already used or courses listed below. (6-7 units)**

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADMJ 014</td>
<td>Alcohol, Narcotics and Drug Abuse</td>
<td>3</td>
</tr>
<tr>
<td>ADMJ 015</td>
<td>Sexual Assault Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ADMJ 023</td>
<td>Police Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>ADMJ 026</td>
<td>Organized Crime</td>
<td>3</td>
</tr>
<tr>
<td>ADMJ 032</td>
<td>Motorcycle, Prison and Street Gangs</td>
<td>3</td>
</tr>
<tr>
<td>ADMJ 033</td>
<td>Introduction to Probation and Parole</td>
<td>3</td>
</tr>
<tr>
<td>ADMJ 034</td>
<td>Career Planning in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>ADMJ 036</td>
<td>Firearms Terminology and Safety</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 001</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 001</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 010</td>
<td>Elementary Statistics</td>
<td>4</td>
</tr>
<tr>
<td>OR</td>
<td>Honors Elementary Statistics</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Major Units**  
18-19

**GE Units (CSU GE or IGETC)**  
39 or 37

**Total Degree Units**  
60

CSU transferable elective courses are required when the major units plus transfer GE units total is less than 60.

For crosswalk of new subject codes, see page 61

**Recommended Course Sequence:**

**Fall, Year 1 (6 Units):**  
ADMJ 001, List B (Any Course)

**Spring, Year 1 (6 Units):**  
List A (Any Course), List B (Any Course)

**Fall, Year 2 (6 units):**  
ADMJ 002, List A (Any Course)

## ADMINISTRATION OF JUSTICE: LAW ENFORCEMENT  
**A.S. Degree**

The Administration of Justice Associate’s Degree program includes the theory and practice of law enforcement, correctional science and paralegal/legal assistants. Law enforcement courses focus on police activities including effective patrol services to the public. Correctional science courses instruct on the incarceration process as well as rehabilitation of the offender. Potential careers specific to this degree include, but are not limited to: police officer or deputy sheriff, jailor, detention officer, correctional officer, probation officer, parole agent, and the security and protective services area. Working professionals in criminal justice and corrections can earn significant pay increases by obtaining an Associate’s Degree in Administration of Justice.

Upon completing the requirements for this degree, students should be able to:

**Course ID**  
Title  
Units  
ADMJ 021  
Community Relations  
3  
ADMJ 041  
Introduction to Forensics  
3  
ADMJ 026  
Organized Crime  
3  
ADMJ 032  
Motorcycle, Prison and Street Gangs  
3  
ADMJ 033  
Introduction to Probation and Parole  
3  
ADMJ 034  
Career Planning in Criminal Justice  
3  
ADMJ 036  
Firearms Terminology and Safety  
3  
PSYC 001  
General Psychology  
3  
SOCI 001  
Introduction to Sociology  
3  
MATH 010  
Elementary Statistics  
4  
OR  
Honors Elementary Statistics  
4

- **PREREQUISITES AND COREQUISITES are MANDATORY.** See page 5 for specific information.  
- **Courses used to meet prerequisite requirements must have been completed with a grade of C or Pass or better.**
• Interpret and apply established law and rules of evidence to a given law enforcement or corrections related situation;
• Identify and describe a minimum of one personal methodology for demonstrating an appreciation and respect for different cultures, and the ethnic diversity of a particular community;
• Use the appropriate interpersonal communication methodology, techniques or tactics for a given law enforcement or corrections related situation;
• Apply established conflict resolution techniques for a given law enforcement or corrections related situation;
• Identify and describe an ethical and professional response when given a personal law enforcement or corrections related matter or conflict scenario;
• Identify the appropriate application of force in response to a given law enforcement or corrections related matter or conflict scenario.

<table>
<thead>
<tr>
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<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADMJ 001</td>
<td>Introduction to Administration of Justice</td>
<td>3</td>
</tr>
<tr>
<td>ADMJ 002</td>
<td>Concepts of Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>ADMJ 003</td>
<td>Principles &amp; Procedures of the Justice</td>
<td>3</td>
</tr>
<tr>
<td>ADMJ 004</td>
<td>Legal Aspects of Evidence</td>
<td>3</td>
</tr>
<tr>
<td>ADMJ 005</td>
<td>Criminal Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ADMJ 021</td>
<td>Community Relations</td>
<td>3</td>
</tr>
<tr>
<td>ADMJ 023</td>
<td>Police Report Writings</td>
<td>3</td>
</tr>
<tr>
<td>ADMJ 008</td>
<td>Juvenile Procedures</td>
<td>3</td>
</tr>
<tr>
<td>ADMJ 014</td>
<td>Alcohol, Narcotics and Drug Abuse</td>
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<td>Sexual Assault Investigation</td>
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<td>Introduction to Probation and Parole</td>
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<td>Career Planning in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>ADMJ 036</td>
<td>Firearms Terminology and Safety</td>
<td>3</td>
</tr>
<tr>
<td>ADMJ 041</td>
<td>Introduction to Forensics</td>
<td>3</td>
</tr>
<tr>
<td>ADMJ 100G</td>
<td>Introduction to Corrections</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Major Units**: 30

To be awarded an A.S. Degree, a student must complete
1. Achieve a grade of “C” or better in the major requirements
2. Additional units to meet the college graduation requirements
For crosswalk of new subject codes, see page 61

**Recommended Course Sequence:**

**Fall, Year 1 (9 Units):**
ADMJ 001, ADMJ 002, ADMJ 003

**Spring, Year 1 (9 Units):**
ADMJ 005, ADMJ 021, ADMJ 023

**Fall, Year 2 (6 Units):**
ADMJ 004, Elective Course

**Spring, Year 2 (6 Units):**
6 Units from Electives List

**ADMJ 001 INTRODUCTION TO ADMINISTRATION OF JUSTICE**
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
C-ID AJ 110
This course introduces students to the characteristics of the criminal justice system in the United States. Focus is placed on examining crime measurement, theoretical explanations of crime, responses to crime, components of the system, and current challenges to the system. The course examines the evolution of the principles and approaches utilized by the justice system and the evolving forces which have shaped these principles and approaches. Although justice structure and process is examined in a cross cultural context, emphasis is placed on the US justice system, particularly the structure and function of US police, courts, and corrections. Students are introduced to the origins and development of criminal law, legal process, and sentencing and incarceration policies.

**ADMJ 002 CONCEPTS OF CRIMINAL LAW**
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
C-ID AJ 120
This course offers an analysis of the doctrines of criminal liability in the United States and the classification of crimes against persons, property, morals, and public welfare. Special emphasis is placed on the classification of crime, the general elements of crime, the definitions of common and statutory law, and the nature of acceptable evidence. This course utilizes case law and case studies to introduce students to criminal law. The course also includes some limited discussion of prosecution and defense decision making, criminal culpability, and defenses to crimes.

**ADMJ 003 PRINCIPLES & PROCEDURES OF THE JUSTICE**
3 units
Lecture 3 units; lab 0 units
Advisor: ADMJ 001
Acceptable for credit: University of California, California State University
C-ID AJ 122
This course covers the legal process from pre-arrest, arrest through trial, sentencing and correctional procedures; a review of the history of case and common law; conceptual interpretations of law as reflected in court decisions; and the study of case law methodology and case research as the decisions impact upon the procedures of the justice system.

**ADMJ 004 LEGAL ASPECTS OF EVIDENCE**
3 units
Lecture 3 units; lab 0 units
Acceptable for Credit: California State University
C-ID AJ 124
This course focuses on the origin, development, philosophy and constitutional basis of evidence; constitutional and procedural considerations affecting arrest, search and seizure; kinds and degrees of evidence and rules governing admissibility; judicial decisions interpreting individual rights; and case studies viewed from a conceptual level.

**ADMJ 005 CRIMINAL INVESTIGATION**
3 units
Lecture 3 units; lab 0 units
Acceptable for Credit: California State University
C-ID AJ 140
This course addresses the techniques, procedures, and ethical issues in the investigation of crime, including organization of the investigative process, crime scene searches, interviewing and interrogating, surveillance, source of information, utility of evidence, scientific analysis of evidence, and the role of the investigator in the trial process.
ADMJ 008 JUVENILE PROCEDURES
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
C-ID AJ 220
This course is an examination of the origin, development, and organization of the juvenile justice system as it evolved in the American justice system. The course explores the theories of juvenile law, courts, and processes, and the constitutional protections extended to juveniles administered in the American justice system.

ADMJ 012 MENTAL HEALTH AND CRISIS MANAGEMENT IN THE CRIMINAL JUSTICE SYSTEM
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
The course focuses on how and why individuals with serious mental illness become involved in the criminal justice system, and on how the criminal justice and public mental health systems respond to that involvement. Topics include law enforcement responses, court-based strategies, mental health and corrections, community supervision of individuals with mental illness, violence and mental disorder, and unique challenges associated with female and juvenile populations. Pass/No Pass Option

ADMJ 014 ALCOHOL, NARCOTICS AND DRUG ABUSE
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
This course is an introduction to the problem of substance abuse and the history and classification of drugs. This course is designed to equip police officers and the general public with knowledge of the issues involved in drug abuse.

ADMJ 015 SEXUAL ASSAULT INVESTIGATION
3 units
Lecture 3 units; lab 0 units
Acceptable for Credit: California State University
This course covers the investigation of sexual assault, the collection of evidence, and the treatment of the victim. The course also examines the psychological make-up of the sexual assault perpetrator, reviews the impact on peripheral victims including the family, friends, the community, and explores the measures used by agencies and individuals to prevent this crime. Pass/No Pass Option

ADMJ 017 INTRODUCTION TO HOMELAND SECURITY
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
This course is designed to provide students with an opportunity to understand the strategic, political, legal, and organizational challenges associated with the defense of the U.S. homeland and the coordinated response to major incidents, whether natural or man-made, that requires responsive action to protect life or property and the efforts that are under way to meet these challenges. The course also examines the range of potential threats to the U.S. homeland, focusing on potential terrorist acts and considers strategies and means for addressing these threats.

ADMJ 021 COMMUNITY RELATIONS
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University C-ID AJ 160
This course examines the complex and dynamic relationship between communities and the justice system in addressing crime and conflict. It emphasizes the challenges and prospects of administering justice within a diverse multicultural population. Topics may include conflicting values in culture, religion, and law.
ADMJ 022 PRE-ACADEMY ORIENTATION  
3 units  
Lecture 3 units; lab 0 units  
Advisory: ADMJ 001  
Acceptable for credit: California State University  
This orientation course is designed to prepare students for entry into and successful completion of the Basic Peace Officer’s Academy or the Correctional Officer Cadet Academy. It is open to all majors and interested students. Pass/No Pass Option

ADMJ 023 POLICE REPORT WRITING  
3 units  
Lecture 3 units; lab 0 units  
Acceptable for credit: California State University  
This course is a study of law enforcement reporting procedures with emphasis on techniques designed to improve writing skills, enhance individual observation and comprehension, and effect a more efficient utilization of recorded data in crime detection and the investigative function.

ADMJ 026 ORGANIZED CRIME  
3 units  
Lecture 3 units; lab 0 units  
Acceptable for credit: California State University  
This course includes the study of the origins and development of organized crime from early Italy to contemporary America. The course emphasis is on past and current major organized crime figures, activities, and law enforcement efforts to combat the escalating infusion of organized crime into legitimate business.

ADMJ 032 MOTORCYCLE, PRISON, AND STREET GANGS  
3 units  
Lecture 3 units; lab 0 units  
Acceptable for credit: California State University  
This course is designed for pre-service students or in-service officers to enable them to become familiar with the history, recruitment, training methods, purpose, and infrastructures of various gangs currently operating in California. Pass/No Pass Option

ADMJ 033 INTRODUCTION TO PROBATION AND PAROLE  
3 units  
Lecture 3 units; lab 0 units  
Acceptable for credit: California State University  
This course covers a comprehensive introduction to the understanding of the corrections system in the U.S. Emphasis is on its origin and evolution, philosophies of corrections, perspectives on sentencing, offender rights, legal issues, and alternatives to incarceration including community corrections, probation and parole. The course addresses adult, juvenile and special needs offenders, corrections specialists, staff and administration as a profession and previews special challenges for the future of corrections.

ADMJ 034 CAREER PLANNING IN CRIMINAL JUSTICE  
3 units  
Lecture 3 units; lab 0 units  
Acceptable for credit: California State University  
This introductory course is designed to inform students about potential careers in the Criminal Justice System. The content emphasizes the application, testing, and background screening processes necessary for employment with criminal justice agencies. Pass/No Pass Option

ADMJ 036 FIREARMS TERMINOLOGY & SAFETY  
3 units  
Lecture 3 units; lab 0 units  
Acceptable for credit: California State University  
This course covers the history and development of firearms. Various types of firearms are introduced and their functions examined. Laws pertaining to firearm ownership, possession, use and transportation are studied. Firearm safety is addressed. Pass/No Pass Option

ADMJ 041 INTRODUCTION TO FORENSICS  
3 units  
Lecture 3 units; lab 0 units  
Acceptable for credit: California State University  
C-ID AJ 150  
This course is a survey of the application of scientific methods to the examination, evaluation, and explanation of the physical evidence related to a crime. The course also introduces students to the contributions of forensic anthropology, forensic psychiatry, document analysis, and computer forensics to criminal investigations. Case studies are used to illustrate the application and introduction of forensic evidence in the legal system.

ADMJ 042 PROPERTY AND EVIDENCE MANAGEMENT IN LAW ENFORCEMENT  
3 units  
Lecture 3 units; lab 0 units  
Advisory: ADMJ 004 and ADMJ 041  
Acceptable for credit: California State University  
This course covers all aspects of basic Evidence and Property Management in a law enforcement agency. Students have the opportunity to learn best practices, laws, policies and procedures for the collection, intake, storage and disposition of property. Special focus is on the importance of specific types of property such as guns, currency, drugs and biological evidence. Pass/No Pass Option

ADMJ 043 ADMINISTRATION OF JUSTICE INTERNSHIP  
2 units  
Work Experience units: 2  
Prerequisites: ADMJ 001 & ADMJ 002 & ADMJ 023  
The internship provides students with the opportunity to apply knowledge and skills learned in the Administration of Justice. This internship allows students the opportunity to enhance their knowledge of law enforcement-based entities. Students are offered the opportunity to work with a government agency while working under the supervision of a member of the agency. Pass/No Pass Only

ADMJ 051 RACE, CLASS AND GENDER IN CRIMINAL JUSTICE  
3 units  
Lecture 3 units; lab 0 units  
Advisory: ADMJ 001 and ADMJ 021  
Acceptable for credit: California State University  
This course examines the role of race, class, and gender in the criminal justice system, with close attention to questions of racial profiling, mass incarceration, and the question of discrimination in criminal justice. The course also examines unique issues raised by race, class, and gender when analyzed in relationship to crime and the criminal justice system.

ADMJ 100G INTRODUCTION TO CORRECTIONS  
3 units  
Lecture 3 units; lab 0 units  
Acceptable for credit: California State University  
C-ID AJ 200  
This course is designed to provide the student with an overview of the history and trends of corrections. It focuses on the legal issues, specific laws and general operation of correctional institutions. The relationship between corrections and other components of the judicial system are also examined. Pass/No Pass Option

American Sign Language  
(See World Languages)

Anatomy and Physiology  
Human Anatomy (See Biology), Human Physiology (See Biology)
Anthropology

THE FACULTY
Andrew Kindon

DIVISION Social Science
DEAN Raymond Gamba
DEPARTMENT CHAIR Andrew Kindon
PHONE 408-741-2554
EMAIL andrew.kindon@westvalley.edu
COUNSELING 408-741-2009

Degrees:
A.A.-T, Anthropology
A.A., Anthropology

ANTHROPOLOGY: For transfer information see assist.org and/or consult with a counselor.

ASSOCIATE IN ARTS IN ANTHROPOLOGY FOR TRANSFER DEGREE (AA-T in Anthropology)
The Associate in Arts in Anthropology for Transfer Degree (AA-T in Anthropology) is a 60 unit program which is designed to provide lower-division education to students planning to transfer to a CSU institution in pursuit of a baccalaureate degree in Anthropology.

Students who complete this program will be able to:
• apply scientific methodologies, including descriptive, quantitative, or qualitative;
• and demonstrate a holistic perspective on cultural, environmental, and/or biological systems that address cultural values, change, and interactions.

Students must complete the following ADT requirements:
• 60 semester or 90 quarter CSU-transferable units
• the California State University-General Education-Breadth pattern (CSU GE-Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.
• a minimum of 18 semester or 27 quarter units in the major or area of emphasis as determined by the community college district.
• obtainment of a minimum grade point average (GPA) of 2.0.
• earn a grade of C or better in all courses required for the major or area of emphasis.

Recommended Course Sequence
Fall, Year 1 (6-7 Units):
ANTH 001 or 001H AND Any Course from List A
Spring, Year 1 (7-8 Units):
ANTH 002 AND Any Course from List B
Fall, Year 2 (3 Units):
ANTH 003 or 003H
Spring, Year 2 (3 Units):
Any Course from List C

ANTHROPOLOGY
A.A. Degree
The Associate of Arts in Anthropology Degree (AA in Anthropology) is designed to provide lower division education to students planning to transfer to a four-year institution in pursuit of a baccalaureate degree in Anthropology.

Students who complete this program will be able to:
• apply scientific methodologies, including descriptive, quantitative, or qualitative;
• demonstrate a core knowledge base in anthropology appreciating and reflecting on human diversity in the past and present;
• articulate key concepts and events in the process of human evolution;
• and demonstrate a holistic perspective on cultural, environmental, and/or biological systems that addresses cultural values, change, and interactions.
**Anthropology**

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td>ECON 001AH AND ECON 002AH</td>
<td>Honors Principles of Macroeconomics</td>
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<td>ECON 001AH AND ECON 002AH</td>
<td>Honors Principles of Macroeconomics Lab</td>
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<td>ECON 001B AND ECON 002B</td>
<td>Principles of Microeconomics</td>
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<td>ECON 001BH AND ECON 002BH</td>
<td>Honors Principles of Microeconomics</td>
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<td>Honors Principles of Microeconomics Lab</td>
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<td>GEOG 001</td>
<td>Intro Physical Geography</td>
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<tr>
<td>GEOG 002</td>
<td>Introduction to Cultural Geography</td>
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<td>HIST 004A</td>
<td>Western Civilization I: Prehistory to 1500 CE</td>
<td>3</td>
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<tr>
<td>HIST 004B</td>
<td>Western Civilization II: 1500 CE to Present</td>
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<td>HIST 005A</td>
<td>World History: Prehistory to 1500</td>
<td>3</td>
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<td>HIST 005B</td>
<td>World History from 1500</td>
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<td>HIST 012</td>
<td>African American History</td>
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<td>HIST 014</td>
<td>History of the Native North Americans</td>
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<td>HIST 016</td>
<td>Mexican-American History</td>
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<td>HIST 017A</td>
<td>United States History</td>
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<tr>
<td>HIST 017B OR HIST 017BH</td>
<td>United States History</td>
<td>3</td>
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<tr>
<td>HIST 020</td>
<td>History and Geography of California</td>
<td>3</td>
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<td>POLI 002</td>
<td>Comparative Governments</td>
<td>3</td>
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<td>POLI 004</td>
<td>International Relations</td>
<td>3</td>
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<td>PSYC 001</td>
<td>General Psychology</td>
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<td>PSYC 002 OR PSYC 002H</td>
<td>Experimental Psychophysiology</td>
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<td>PSYC 007</td>
<td>Physiological Psychology</td>
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<td>PSYC 009</td>
<td>Psychology of Women: A Multicultural Perspective</td>
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<td>PSYC 012</td>
<td>Human Growth and Development</td>
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<td>PSYC 025</td>
<td>Introduction to Abnormal Psychology</td>
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<td>SOCI 001</td>
<td>Introduction to Sociology</td>
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<td>SOCI 002</td>
<td>Social Problems</td>
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<td>SOCI 020</td>
<td>Sociology of Race and Ethnicity</td>
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<tr>
<td>SOCI 040</td>
<td>Marriage and Family Sociology</td>
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<td>SOCI 045</td>
<td>Sociology of Human Sexuality</td>
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<td>ANTH 004</td>
<td>Intro to Linguistic Anthropology</td>
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<td>ANTH 055</td>
<td>Anthropology of Magic, Witchcraft, and Religion</td>
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</tr>
<tr>
<td>POLI 001 OR POLI 001H</td>
<td>American Government</td>
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</table>

**Total Major Units**

To be awarded an A.A. Degree, a student must complete:

1. All major requirements.
2. Additional units to meet the college graduation requirements.

For crosswalk of new subject codes, see page 61

**Recommended Course Sequence**

**Fall, Year 1**
- example course listed (3 Units):
  - ANTH 003 OR 003H

**Spring, Year 1**
- (3 Units):
  - ANTH 001

**Fall, Year 2**
- (6 Units):
  - ANTH 002 and Any Course from Elective Courses

**Spring, Year 2**
- (8–9 Units):
  - Any Courses from Elective Courses

**ANTH 001 INTRODUCTION TO PHYSICAL ANTHROPOLOGY**
- 3 units
- Lecture 3 units; lab 0 units
- Acceptable for credit: University of California, California State University
- C-ID ANTHR 110
- This course focuses on the anthropological approach to the human condition; theories of human origins; scientific evidence for the origin and evolution of the human species; description and anthropological explanation of human physical, biological, and behavioral variations. Pass/No Pass Option

**ANTH 002 INTRODUCTION TO ARCHAEOLOGY**
- 3 units
- Lecture 3 units; lab 0 units
- Acceptable for credit: University of California, California State University
- C-ID ANTH 150
- This course is an overview of the discipline of archaeology, including the history of the field, theoretical perspectives and methods, and a survey of cultural developments from the Stone Age to early civilizations of the Old and New World. Pass/No Pass Option

**ANTH 003 INTRODUCTION TO CULTURAL ANTHROPOLOGY**
- 3 units
- Lecture 3 units; lab 0 units
- Acceptable for credit: University of California, California State University
- C-ID ANTH 120
- This course is a study of culture and social behavior through the anthropological study of contemporary peoples. This course is a comparative survey of the range of cultures of the world with emphasis upon social organization, economics, religion, kinship systems, cultural patterns, values, ethics, and ecology. Pass/No Pass Option

- ADVISORY is a recommended preparation, NOT a REQUIREMENT.
- This catalog is subject to change and may be incomplete. Please consult the addenda at westvalley.edu/catalog/
ANTH 003H HONORS INTRODUCTION TO CULTURAL ANTHROPOLOGY
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
C-ID ANTH 120
Honors Introduction to Cultural Anthropology uses the pedagogical methods common to all Honors courses: interdisciplinary, writing-intensive, collaborative, and experiential instruction. As an honors course, there will be a focus on analytical writing and exploring the field through reading primary source research. This course is a study of culture and social behavior through the anthropological study of contemporary peoples. Comparative survey of the range of cultures of the world with emphasis upon social organization, economics, religion, kinship systems, cultural patterns, values, ethics, and ecology.

ANTH 004 INTRO TO LINGUISTIC ANTHROPOLOGY
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
C-ID ANTH 130
This course is designed to introduce students to the anthropological study of language and communication. It includes a survey of world languages and an introduction to methods used by linguistic anthropologists. The course covers the use of linguistic data in studies of cognition, social context, cultural history and languages as they reflect the separate cultural realities of different cultures. Pass/No Pass Option

ANTH 055 ANTHROPOLOGY OF MAGIC, WITCHCRAFT, AND RELIGION
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
This course is a cross-cultural study of the forms and functions of supernatural beliefs and associated rituals in various contemporary societies of Africa, Asia, aboriginal Australia, Oceania, South America, native North America and elsewhere. The course is designed to introduce anthropological approaches to the understanding of cultural beliefs in the supernatural. This course considers supernatural beliefs and rituals to develop insights into the functional aspects of religious beliefs and institutions in our lives. Pass/No Pass Option

Archaeology
(See Anthropology)
CREDIT BY EXAMINATION
West Valley College's credit by examination policy does not apply to any of Architecture courses.

ARCHITECTURE
A.S. Degree

The Architecture Program at West Valley College is primarily transfer oriented. It prepares students to enter 4- and 5-year architecture programs at the university level. The degree exceeds 60 units as it is preparing students for the five year professional degree in Architecture.

The Architecture courses at West Valley cover the following areas of study: building design, graphics, history, practical/technical communication, codes, construction, and structural design. An increasing number of WVC courses leverage computer technology as an educational tool.

Students, upon completion of this degree, are prepared to transfer to a 4 or 5 years program in Architecture or Architectural Engineering.

Career options after completion of a baccalaureate degree include:
• Architecture
• Landscape Architecture
• Historic Preservation Architecture
• Interior Design
• Construction Management
• Facilities Management
• Specification Writing
• Structural Engineering
• Architectural Graphics

After completing an A.S. in Architecture, a student will be able to:
• Communicate effectively and professionally in the architectural environment through proper use of verbal, written and graphic techniques.
• Apply mathematical skills to solve technical problems associated with architectural drawings.
• Develop architectural drawings including construction drawings, and presentation drawings.
• Use computer graphics applications associated with architectural projects.
• Select construction materials based upon their properties and methods of installation.
• Apply principals of structural design.
• Apply building codes, zoning codes, and ADA (Americans with Disabilities Act).
• Demonstrate creativity and problem-solving abilities in designing residential and commercial buildings.
• Use standard dimensions for space planning and human occupancy using Architectural Graphic Standards.

To be awarded an A.S. Degree, a student must complete
1. All the major requirements.
2. A grade of "C" or better must be earned for all required courses.
3. All the required electives.
4. Additional units to meet the college graduation requirements.
A. This degree may require additional lower division requirements at CSU and UC campuses.
B. Students MUST complete CSU GE or IGETC pattern.
C. Students MUST complete Proficiency Requirements for AA degree:
• Reading for graduation
• Information Competency
• Cultural Diversity

For crosswalk of new subject codes, see page 61

ARCHITECTURE
Certificate of Achievement

The Architecture Certificate at West Valley College provides career technical education in the field of Architecture and primarily prepares students to work as technicians in different areas of the construction industry.

The architecture courses at West Valley cover the following areas of study: building design, graphics, history, practical/technical communication, codes, construction, and structural design. An increasing number of WVC courses leverage computer technology as an educational tool.

At the completion of their program, students will be able to:
• Communicate effectively and professionally in the architectural environment through proper use of verbal, written and graphic techniques.
• Apply mathematical skills to solve technical problems associated with architectural drawings.
• Develop architectural drawings including construction drawings and presentation drawings.
• Use computer graphics applications associated with architectural projects.
• Select construction materials based upon their properties and methods of installation.
• Apply principals of structural design.
• Apply building codes, zoning codes, and ADA (Americans with Disabilities Act) regulations.
• Demonstrate creativity and problem-solving abilities in designing residential and commercial buildings.
• Use standard dimensions for space planning and human occupancy using Architectural Graphic Standards.

Students, upon completion of this certificate, are prepared to work as technicians in the following careers:
• Architecture
• Landscape Architecture
• Historic Preservation Architecture

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
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<td>ARCH 043</td>
<td>Styles in Architecture</td>
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<tr>
<td>ARCH 045</td>
<td>Architectural Building Codes</td>
<td>3</td>
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<tr>
<td>ARCH 048</td>
<td>Digital Tools for Architecture</td>
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<tr>
<td>ARCH 050</td>
<td>Construction Materials &amp; Methods</td>
<td>3</td>
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<tr>
<td>ARCH 051</td>
<td>Architectural Graphics: Drawing &amp; Sketching</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 052</td>
<td>Architectural Graphics: Color Rendering</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 053</td>
<td>Introduction to Architectural &amp; Environmental Design</td>
<td>3</td>
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<tr>
<td>ARCH 056</td>
<td>Basic Architectural Design</td>
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<tr>
<td>ARCH 061</td>
<td>Architectural Design I</td>
<td>3</td>
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<tr>
<td>ARCH 062</td>
<td>Architectural Design II</td>
<td>3</td>
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<tr>
<td>ARCH 063</td>
<td>Architectural Design III</td>
<td>3</td>
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</tbody>
</table>

• ADVISORY is a recommended preparation, NOT a REQUIREMENT.
• This catalog is subject to change and may be incomplete. Please consult the addenda at westvalley.edu/catalog/
• Interior Design
• Construction Management
• Facilities Management
• Specification Writing
• Structural Engineering
• Architectural Graphics

**Course ID** | **Title** | **Units**
--- | --- | ---
**Required Core Courses: 34 units**
ARCH 045 | Architectural Building Codes | 3
ARCH 049 | Introduction to Rhino | 3
ARCH 050 | Construction Materials & Methods | 3
ARCH 051 | Architectural Graphics: Drawing & Sketching | 3
ARCH 052 | Architectural Graphics: Color Rendering | 3
ARCH 056 | Basic Architectural Design | 3
ARCH 057 | Architectural Model Making | 1
ARCH 058 | Introduction to Revit Architecture | 3
ARCH 059 | 3D Studio Max: 3D Rendering | 3
ARCH 061 | Architectural Design 1 | 3
ARCH 062 | Architectural Design 2 | 3
ARCH 066 | Advanced Revit Architecture | 3

**Total Certificate Units** 34

To be awarded a certificate, a student must:
1. Complete all the major requirements.
2. Earn a grade of "C" or better for all required courses.
For crosswalk of new subject codes, see page 61

**Recommended Course Sequence:**

**Fall, Year 1 (12 Units):**
ARCH 049, ARCH 051, ARCH 056, ARCH 058

**Spring, Year 1 (12 Units):**
ARCH 050, ARCH 052, ARCH 061, ARCH 066

**Fall, Year 2 (10 Units):**
ARCH 045, ARCH 057, ARCH 059, ARCH 062

**Career Paths**
- Landscape Architects
- Resource Managers
- Designers
- Contractors
- Draftspersons
- Landscape Industry Representatives
- Planners

**LANDSCAPE ARCHITECTURE: Transfer**
See assist.org and/or consult with a counselor.

**COURSE SUBSTITUTION AND WAIVERS**
Course substitution and waivers are approved by the department upon review of transcripts, course description, syllabus, SLO (Student Learning Outcomes), and evidence of proficiency in the subject matter (a portfolio of assignments, projects, presentations, etc.) Students may take an exam upon department’s request.

**CREDIT BY EXAMINATION**
West Valley College’s credit by examination policy does not apply to any of Architecture courses.

**LANDSCAPE ARCHITECTURE (A.S. Degree)**

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

**LANDSCAPE ARCHITECTURE**

**A.S. Degree**

After completing an A.S. degree in Landscape Architecture, a student will be able to:
- Communicate effectively and professionally in the landscape architectural environment through proper use of verbal, written and graphic techniques.
- Apply mathematical skills to solve technical problems associated with landscape architectural drawings.
- Develop landscape architectural drawings and presentation drawings.
- Use computer graphics applications associated with landscape architectural projects.
- Select landscape construction materials based upon their properties and methods of installation.
- Apply building codes, zoning codes, and ADA (Americans with Disabilities Act).
- Demonstrate creativity and problem-solving abilities in landscape design for residential, commercial, and public sites.
- Use standard dimensions for space planning and human occupancy using Landscape Architectural Graphic Standards.
- Identify different types of landscape plants during the four seasons.
- Demonstrate creative abilities in landscape plant composition.
- Identify professional, ethical and societal responsibilities including respect for diversity.

**Course ID** | **Title** | **Units**
--- | --- | ---
**Required Core Courses: 37 units**
ARCH 050 | Construction Materials & Methods | 3
ARCH 051 | Architectural Graphics: Drawing & Sketching | 3
ARCH 053 | Intro to Architectural and Environmental Design | 3
ARCH 056 | Basic Architectural Design | 3
ARCH 057 | Architectural Model Making | 1
LANDSCAPE ARCHITECTURE
Certificate of Achievement

The Landscape Architecture Certificate at West Valley College primarily prepares students to work as technicians in different areas of the landscape and construction industry.

The Architecture courses at West Valley cover the following areas of study: building design, graphics, history, practical/technical communication, codes, construction, and structural design. An increasing number of WVC courses leverage computer technology as an educational tool.

Upon completion of this Certificate, students will be able to:

- Communicate effectively and professionally in the landscape architectural environment through proper use of verbal, written and graphic techniques.
- Apply mathematical skills to solve technical problems associated with landscape architectural drawings.
- Develop landscape architectural drawings and presentation drawings.
- Use computer graphics applications associated with landscape architectural projects.
- Select landscape construction materials based upon their properties and methods of installation.
- Demonstrate creativity and problem-solving abilities in landscape design for residential, commercial, and public sites.
- Use standard dimensions for space planning and human occupancy using Landscape Architectural Graphic Standards.

Students, upon completion of this certificate, are prepared to work in the following careers:

- Landscape Designer
- Facilities Manager
- Landscape Contractor
- Landscape Industry Representative

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<tr>
<th>Course ID</th>
<th>Title</th>
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<td>ARCH 040</td>
<td>Fundamentals of Historic Preservation</td>
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<td>ARCH 043</td>
<td>Styles in Architecture</td>
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<td>ARCH 045</td>
<td>Architectural Building Codes</td>
<td>3</td>
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<td>ARCH 046</td>
<td>History of Architecture</td>
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<td>ARCH 047</td>
<td>History of Modern Architecture</td>
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<tr>
<td>ARCH 052</td>
<td>Architectural Graphics: Color Rendering</td>
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Total Major Units: 50
Total Degree Units: 75

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.

For crosswalk of new subject codes, see page 61

Recommended Course Sequence:

Fall, Year 1 (12 Units):
ARCH 051, ARCH 056, ARCH 072, ARCH 081

Spring, Year 1 (14 Units):
ARCH 045, ARCH 050, ARCH 058, ARCH 082, ARCH 083

ARCH 043 STYLES IN ARCHITECTURE
2 units
Lecture 2 units; lab 0 units
Acceptable for credit: University of California, California State University
This course is a study of styles in architecture from pre-history to present. This course covers cultural, political, and social influences in architectural styles; a general overview of different architectural styles including each style's date of origination, its life period, main characteristics, and features; differences between similar styles, and eclecticism. This course covers also the styles of American colonial architecture. Pass/No Pass Option

ARCH 045 ARCHITECTURAL BUILDING CODES
3 Units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
This course covers the building permit process and definition of building codes as described in the International Building Code. The course emphasizes use and occupancy, special use and occupancy, building heights and areas, type of construction, fire-resistant construction, interior finishes, fire-protection systems, means of egress, accessibility, interior environment, energy efficiency, exterior walls, roof assemblies, structural provisions, building materials and systems, and existing structures. Pass/No Pass Option

ADVISORY is a recommended preparation, NOT a REQUIREMENT.

This catalog is subject to change and may be incomplete. Please consult the addenda at westvalley.edu/catalog/
ARCH 046 HISTORY OF ARCHITECTURE
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
This course is a study of the world history of architecture from pre-history to 1945. The course content includes the study of Roman concurrences, the triumph of Christ (early Christian architecture) to Absolutism, Bourgeoisie (European architecture 1600-1750), architecture for a new world, and Victorian Environments. Pass/No Pass Option

ARCH 047 HISTORY OF MODERN ARCHITECTURE
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
This course is a study of modern world architectural history from 1945 to the present. The influences of the industrial revolution and the old world in contemporary architecture are also discussed. Pass/No Pass Option

ARCH 048 DIGITAL TOOLS FOR ARCHITECTURE
2 units
Lecture 1 unit; lab 1 unit
Acceptable for credit: University of California, California State University
This course explores traditional and contemporary methods of graphic presentations as a means of communication in architectural design. The course emphasizes a variety of presentation techniques including color renderings, delineation of elevation, section, plan views and articulation of image and transfer methodologies. Media include computer-generated images, vellum based renderings, and architectural model building. Emphasis is also placed on preparation of student portfolio and presentation skills, in preparation for student interviews upon entering the profession. Pass/No Pass Option

ARCH 049 INTRODUCTION TO RHINO
3 units
Lecture 1.5 units; lab 1.5 units
Acceptable for credit: University of California, California State University
This course is an introduction to Rhino. This software is designed specifically for use in architecture, landscape architecture, and interior design to focus on complex, compositional forms. This course emphasizes students’ creativity on the construction of 3D models. Pass/No Pass Option

ARCH 050 CONSTRUCTION MATERIALS & METHODS
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
This course is a study of various building materials, their methods of installation, and it provides an overview of the structural concepts of building design. Pass/No Pass Option

ARCH 051 ARCHITECTURAL GRAPHICS: DRAWING & SKETCHING
3 units
Lecture 1.5 units; lab 1.5 unit
Acceptable for credit: University of California, California State University
This course is a study of the basic techniques of drafting and sketching as it relates to architectural graphic communication. Students have opportunities to develop visual literacy, freehand sketching techniques, and an understanding of perspective. This course also covers natural and human-made forms and basic architectural rendering. Pass/No Pass Option

ARCH 052 ARCHITECTURAL GRAPHICS: COLOR RENDERING
3 units
Lecture 1.5 units; lab 1.5 unit
Acceptable for credit: University of California, California State University
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. Additional topics include natural and human-made forms and advanced architectural color rendering. Pass/No Pass Option

ARCH 053 INTRODUCTION TO ARCHITECTURAL AND ENVIRONMENTAL DESIGN
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
This course is an overview of the environmental design field and introduces the design process as a basis for architectural decision making. Other topics include the professional fields of architecture, engineering, city planning, landscape architecture, allied professions, and construction. Pass/No Pass Option

• PREREQUISITES AND COREQUISITES are MANDATORY. See page 5 for specific information.
• Courses used to meet prerequisite requirements must have been completed with a grade of C or Pass or better.
ARCH 056 BASIC ARCHITECTURAL DESIGN  
3 units  
Lecture 1.5 units; lab 1.5 unit  
Acceptable for credit: University of California, California State University  
This course is a study of architectural design principles and methodologies. Students have the opportunity to apply these principles to studio problems of increasing complexity. Various representation techniques are utilized, including sketching, manual graphics and rendering, computer graphics, and architectural model making. Pass/No Pass Option

ARCH 057 ARCHITECTURAL MODEL MAKING  
1 unit  
Lecture 0.5 units; lab 0.5 units  
Acceptable for credit: California State University  
This course covers the most common aspects of materials, tools, and skills required to build architectural models. Pass/No Pass Option

ARCH 058 INTRODUCTION TO REVIT ARCHITECTURE  
3 units  
Lecture 1.5 units; lab 1.5 unit  
Acceptable for credit: University of California, California State University  
This course is an introduction to Autodesk: Revit Architecture - software specifically designed for use by architecture, landscape architecture, interior design, and civil engineering professionals. This course emphasizes the construction of 3D models. Pass/No Pass Option

ARCH 059 3D STUDIO MAX: 3D RENDERING  
3 units  
Lecture 1.5 units; lab 1.5 units  
Acceptable for credit: California State University  
This course is study of Autodesk: 3D Studio Max Design software specifically designed for use by architecture, landscape architecture, interior design, and civil engineering professionals. This course familiarizes both novice and experienced 3D artists with the process and capabilities of the 3D Studio Max Design tool set. The course focuses on the process of developing projects with 3D Studio Max Design. Students have the opportunity to learn how to use each tool to its maximum benefit, as well as why it is important to the overall process. This course emphasizes the creation of advanced rendering perspectives from a 3D model of a building project and its context. Pass/No Pass Option

ARCH 060 GREEN BUILDING & SUSTAINABLE DESIGN  
3 units  
Lecture 3 units; lab 0 units  
Acceptable for credit: California State University  
This intermediate level architecture course is a study of green building and sustainable design requirements. Students have opportunities to learn about green building and sustainable design requirements through lectures and case studies. Additional topics include green design strategies: envelope, lighting, heating, cooling, energy production, water and waste. Pass/No Pass Option

ARCH 061 ARCHITECTURAL DESIGN 1  
3 units  
Lecture 1.5 units; lab 1.5 unit  
Prerequisites: ARCH 056  
Advisory: ARCH 049 or ARCH 058  
Acceptable for credit: University of California, California State University  
This course is an architectural design studio. It introduces a full range of architectural ideas and issues through drawing exercises, analysis of precedents, and exploration of design methods. Students develop design skills by conceptualizing and representing architectural ideas and making aesthetic judgments about building design. Design problems range from those of the immediate environment of the individual to that of small social groups. Students develop their architectural creativity by use of software such as Rhino, SketchUp, and Revit. Pass/No Pass Option

ARCH 062 ARCHITECTURAL DESIGN 2  
3 units  
Lecture 1.5 units; lab 1.5 unit  
Prerequisite: ARCH 061  
Acceptable for credit: University of California, California State University  
This course is an architectural design studio. It covers human, social, technical, and aesthetic factors related to space and form. Additional topics include designing as a conceptual discipline directed at the analysis, interpretation, synthesis, analyses of precedents, and transformation of the physical environment. Exercises are aimed at developing an understanding of the issues, elements, and processes of structural and environmental design. Students have the opportunity to develop their architectural creativity by use of software such as Rhino, SketchUp, and Revit. Pass/No Pass Option

ARCH 063 ARCHITECTURAL DESIGN 3  
3 units  
Lecture 1.5 units; lab 1.5 unit  
Prerequisite: ARCH 062  
Acceptable for credit: University of California, California State University  
This course covers the most common aspects of materials, tools, and skills required to build architectural models. Pass/No Pass Option

ARCH 064 ARCHITECTURAL PRACTICE  
3 units  
Lecture 1.5 units; lab 1.5 units  
Acceptable for credit: California State University  
This course is an advanced architectural design studio. Students have the opportunity to develop their architectural creativity by use of software such as Rhino, SketchUp, and Revit. Pass/No Pass Option

ARCH 066 ADVANCED REVIT ARCHITECTURE  
3 units  
Lecture 1.5 units; lab 1.5 units  
Acceptable for credit: California State University  
This course focuses on an advanced Autodesk: Revit Architecture software specifically designed for use by architecture, landscape architecture, interior design, and civil engineering professionals. This course familiarizes both novice and experienced 3D artists with the process and capabilities of the Revit tool set. The course focuses on the process of developing projects with Revit. This course emphasizes the creation of a set of construction documents and advanced rendering perspectives from a 3D model of a building project and its context. Pass/No Pass Option

ARCH 072 HISTORY OF LANDSCAPE ARCHITECTURE  
3 units  
Lecture 3 units; lab 0 units  
Acceptable for credit: University of California, California State University  
This course is a study of world landscape architectural history from prehistory to present. Pass/No Pass Option

**ADVISORY** is a recommended preparation, NOT a REQUIREMENT.  
*This catalog is subject to change and may be incomplete. Please consult the addenda at westvalley.edu/catalog*
ARCH 076 LANDSCAPE CONSTRUCTION TECHNOLOGY
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: California State University
This course is a study of the landscape architecture technical implementation with an emphasis on basic principles of site layout, grading and drainage, earthwork computations, irrigation systems, landscape construction materials and details. Pass/No Pass Option

ARCH 081 LANDSCAPE PLANTS: SUMMER AND AUTUMN
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
This course is a study of ornamental trees, vines, and ground-covers during the summer and autumn seasons. Emphasis is placed on growth habits, cultural requirements, maintenance, suitability for landscape use, and the ecology of plant communities. Pass/No Pass Option

ARCH 082 LANDSCAPE PLANTS: WINTER AND SPRING
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
This course is a study of ornamental trees, vines, and groundcovers during the winter and spring seasons. Emphasis is placed on growth habits, cultural requirements, maintenance, suitability for landscape use, and the ecology of plant communities. Pass/No Pass Option

ARCH 083 PLANT COMPOSITION
2 units
Lecture 1 unit; lab 1 unit
Acceptable for credit: University of California, California State University
This course is a study of the design placement of ornamental trees, shrubs, vines, and ground covers in the environmental landscape. Emphasis is on the aesthetic and functional relationship of plant combinations, forms, and scale in relation to structures and outdoor spaces. Pass/No Pass Option

ARCH 084 SUSTAINABILITY IN LANDSCAPE ARCHITECTURE
3 units
Lecture 3 unit; lab 0 units
Acceptable for credit: California State University
This course covers the topic of sustainability in landscape architectural design. Students have opportunities to study sustainable environmental and visual phenomena through landscape architectural design exercises. Additional topics include firescaping, green roofs, plant restoration, habitat restoration, and Brownfields. Students have opportunities to apply sustainable design to a specific site. Pass/No Pass Option

ARCHITECTURE

Art

THE FACULTY
Kathy Arnold
Heidi Brueckner
Jason Challas
Christopher Cryer
Mitra Fabian
Dan Fenstermacher
Ron Guzman
Cynthia Napoli-Abella Reiss

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EMAIL
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COUNSELING
408-741-2009

Degrees:
A.A.-T, Art History
A.A.-T, Studio Arts

The West Valley College Art Department offers a comprehensive curriculum of courses including art appreciation, art history, art history online, computer art and animation, two and three dimensional design, drawing, figure drawing, painting, ceramics, photography and sculpture. Art Department curriculum accommodates students with various goals and levels of experience. The Art Department faculty facilitates a supportive, creative learning environment where all students may explore their interests: transfer to four-year institutions and priority art schools or career options listed below. Instructional emphasis is placed on
• the fundamental principles of art;
• developing technical skills and good craftsmanship; and
• exploring creativity and self-expression.

Art students are given the opportunity to participate in scheduled exhibitions of student work in the West Valley College Art Gallery.

Highlights
• West Valley College Art Gallery
• Fine Art Computer lab
• Integrated learning opportunities in Fine Arts – Art, Music, Theater Arts, Film
• Professional teaching faculty who actively produce and exhibit their artwork
• Lost-wax, ceramic shell, bronze casting facility
• Art History and Art Appreciation courses in distance format
• Opportunities to explore artistic expression in a wide variety of media
• Faculty scheduled trips to museums and galleries
• Focused workshops for community artists

Career Options
• Art Conservator
• Art Criticism
• Art Curator
• Art Director
• Art Education/Teaching
• Art Librarian
• Art Publishing/Journalism
• Art Therapist
• Arts Administration
• Business
• Computer Animator
• Computer Art /Graphics
• Fine Artist
• Graphic Designer
• Museum/Gallery Professional
• Photographer

• PREREQUISITES AND COREQUISITES are MANDATORY. See page 5 for specific information.
• Courses used to meet prerequisite requirements must have been completed with a grade of C or Pass or better.
ASSOCIATE IN ARTS IN ART HISTORY FOR TRANSFER DEGREE (AA-T in Art History)

The Associate in Arts in Art History for Transfer Degree (AA-T in Art History) is a 60 unit program which is designed to provide lower-division education to students planning to transfer to a CSU institution in pursuit of a baccalaureate degree in Art History or an emphasis in Art History.

Students completing the Associate in Arts in Art History for Transfer degree (AA-T in Art History) will be able to:

- Attribute selected unknown works of art to the artist, culture, country, and/ or style, giving the reasons for attribution;
- Respond to works of art on both intellectual and emotional levels;
- Recognize and analyze iconography specific to non-western cultures.

Students must complete the following ADT requirements:

- 60 semester or 90 quarter CSU-transferable units
- the California State University-General Education-Breadth pattern (CSU GE-Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.
- a minimum of 18 semester or 27 quarter units in the major or area of emphasis as determined by the community college district.
- obtainment of a minimum grade point average (GPA) of 2.0.
- earn a grade of C or better in all courses required for the major or area of emphasis.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ARTS 001A</td>
<td>Survey of Western Art I</td>
<td>3</td>
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<tr>
<td>OR</td>
<td>Honors Survey of Western Art I</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 001B</td>
<td>Survey of Western Art II</td>
<td>3</td>
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<td>OR</td>
<td>Honors Survey of Western Art II</td>
<td>3</td>
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<tr>
<td>ARTS 031A</td>
<td>Beginning Drawing</td>
<td>3</td>
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<td>List A (select one): 3 units</td>
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<tr>
<td>ARTS 007</td>
<td>The Art of Asia</td>
<td>3</td>
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<tr>
<td>ARTS 001J</td>
<td>Survey of Non-Western Art: Africa, Oceania, and Indigenous North America</td>
<td>3</td>
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<tr>
<td>ARTS 012A</td>
<td>Art of Pre-Hispanic Mexico</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 012B</td>
<td>Art of Colonial and Modern Mexico</td>
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<tr>
<td>ARTS 033A</td>
<td>Two-Dimensional Design</td>
<td>3</td>
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<td>ARTS 081</td>
<td>3-Dimensional Design</td>
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<tr>
<td>ARTS 035A</td>
<td>Beginning Life Drawing</td>
<td>3</td>
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<td>ARTS 056</td>
<td>Introduction to Computer Arts</td>
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<td>ARTS 065A</td>
<td>Ceramics-Handbuilding</td>
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<td>ARTS 067A</td>
<td>Ceramics-Potter’s Wheel</td>
<td>3</td>
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<tr>
<td>ARTS 062A</td>
<td>Basic Photography</td>
<td>3</td>
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<td>ARTS 085A</td>
<td>Sculpture</td>
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<td>ARTS 031B</td>
<td>Expressive Drawing</td>
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<tr>
<td>ARTS 033C</td>
<td>Color Design</td>
<td>3</td>
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</tbody>
</table>

Total Major Units: 18

GE Units (CSU GE or IGETC): 39 or 37

Total Degree Units: 60

CSU transferable elective courses are required when the major units plus transfer GE units total is less than 60

For crosswalk of new subject codes, see page 61

Recommended Sequence:

Fall, Year 1: 6 units
ARTS 031A, ARTS 001B or 001BH

Spring, Year 1: 6 units
Any Course from List B, ARTS 001A or 001AH

Fall, Year 2: 3 units
Any Course from List A

Spring, Year 2: 3 units
Any Course from List B

ASSOCIATE IN ARTS IN STUDIO ARTS FOR TRANSFER DEGREE (AA-T in Studio Arts)

The Associate in Arts in Studio Arts for Transfer degree (AA-T in Studio Arts) is designed to provide lower division education to students planning to transfer to a CSU institution in pursuit of a baccalaureate degree in Art, Visual and Public Art or Visual and Performing Arts.

Students completing the Associate in Arts in Studio Arts for Transfer degree (AA-T in Studio Arts) will be able to:

- examine and evaluate artwork in terms of strengths and goals;
- create drawings that demonstrate proportion, value, volume, composition, chiaroscuro and perspective and techniques of pencil, ink and charcoal application;
- and create an art project that uses the elements of design point, line, plane, value, and other design principles of organization.

Students must complete the following requirements:

- 60 semester or 90 quarter CSU-transferable units
- the California State University-General Education-Breadth pattern (CSU GE-Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.
- a minimum of 18 semester or 27 quarter units in the major or area of emphasis as determined by the community college district.
- obtainment of a minimum grade point average (GPA) of 2.0.
- earn a grade of C or better in all courses required for the major or area of emphasis.

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<tr>
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<td>ARTS 049A</td>
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<td>ARTS 001D</td>
<td>Survey of Modern Art</td>
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<td>OR</td>
<td>Honors Modern Art</td>
<td>3</td>
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<tr>
<td>ARTS 001H</td>
<td>Design in Society</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 001G</td>
<td>History of Photography</td>
<td>3</td>
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<td>ARTS 010</td>
<td>American Art: A Multicultural Approach</td>
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<tr>
<td>ARTS 013</td>
<td>African-American Art History</td>
<td>3</td>
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</tbody>
</table>

Total Major Units: 18

GE Units (CSU GE or IGETC): 39 or 37

Total Degree Units: 60

CSU transferable elective courses are required when the major units plus transfer GE units total is less than 60

For crosswalk of new subject codes, see page 61

Recommended Sequence:

Fall, Year 1: 6 units
ARTS 031A, ARTS 001B or 001BH

Spring, Year 1: 6 units
Any Course from List B, ARTS 001A or 001AH

Fall, Year 2: 3 units
Any Course from List A

Spring, Year 2: 3 units
Any Course from List B
<table>
<thead>
<tr>
<th>Course ID</th>
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</tr>
</thead>
<tbody>
<tr>
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<td>Beginning Drawing</td>
<td>3</td>
</tr>
<tr>
<td><strong>List A (select one): 3 units</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARTS 001A OR ARTS 001AH</td>
<td>Survey of Western Art I OR Honors Survey of Western Art I</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 007</td>
<td>The Art of Asia</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 001J</td>
<td>Survey of Non-Western Art: Africa, Oceania, and Indigenous North America</td>
<td>3</td>
</tr>
</tbody>
</table>

**List B: Select three (9 units) Curricular Areas**

### Drawing
- ARTS 035A | Beginning Life Drawing | 3
- ARTS 031B | Expressive Drawing | 3

### Painting
- ARTS 049A | Beginning Painting | 3

### Ceramics
- ARTS 065A | Ceramics-Handbuilding | 3
- ARTS 067A | Ceramics-Potter’s Wheel | 3

### Sculpture
- ARTS 085A | Sculpture | 3

### Digital Arts
- ARTS 055 | Introduction to Computer Arts | 3

### Photography
- ARTS 062A | Basic Photography | 3

### Color
- ARTS 033C | Color Design | 3

### Second Semester
- ARTS 049B | Intermediate Painting | 3
- ARTS 057A | Animation I | 4
- ARTS 065B | Ceramics-Handbuilding II | 3
- ARTS 067B | Ceramics-Potter’s Wheel | 3
- ARTS 085B | Sculpture | 3

Total Major Units: 24-25
GE Units (CSU GE or IGETC): 39 or 37
Total Degree Units: 60

For crosswalk of new subject codes, see page 61

**Recommended Course Sequence:**

**Fall, Year 1: 6 units**
- ARTS 001B OR ARTS 031A

**Spring, Year 1: 3 units**
- ARTS 033A

**Fall, Year 2: 3 units**
- ARTS 081

**Spring, Year 2: 3 units**
- Any Course from List A

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- **Fall & Spring, Year 2: 9 units**
  - Any Course from List B, Any Course from List B, Any Course from List B

**ARTS 001A SURVEY OF WESTERN ART I**
- 3 units
- Lecture 3 units; lab 0 units
- Acceptable for credit: University of California, California State University C-ID ARTH 110

This course is a general survey of painting, sculpture, and architecture in the West from prehistoric times through the Gothic period, using art as a reflection of human interaction with events of the time, emphasizing aesthetic, cultural, and historical values. Pass/No Pass Option

**ARTS 001AH HONORS SURVEY OF WESTERN ART I**
- 3 units
- Lecture 3 units; lab 0 units
- Acceptable for credit: University of California, California State University C-ID ARTH 110

Honors Survey of Western Art I uses the pedagogical methods common to all Honors courses: interdisciplinary, writing-intensive, collaborative, and experiential instruction. As an honors course, there is a focus on analytical writing and exploring pre-historic to Gothic art through primary and secondary source research. This course is a general survey of painting, sculpture, and architecture in the western world from prehistoric times through the Gothic period, using art as a reflection of human interaction with events of the time, emphasizing aesthetic, cultural, and historical values.

**ARTS 001B SURVEY OF WESTERN ART II**
- 3 units
- Lecture 3 units; lab 0 units
- Acceptable for credit: University of California, California State University C-ID ARTH 120

This course is a general survey of painting, sculpture, and architecture in the West from the Renaissance to the present day, using art as a reflection of human interaction with the events of the time, emphasizing aesthetic, cultural, and historical values. Pass/No Pass Option

**ARTS 001BH HONORS SURVEY OF WESTERN ART II**
- 3 units
- Lecture 3 units; lab 0 units
- Prerequisite: Pre-approval into Honors Program.
- Acceptable for credit: University of California, California State University C-ID ARTH 120

Honors Survey of Art II uses the pedagogical methods common to all Honors courses: interdisciplinary, writing-intensive, collaborative, and experiential instruction. As an honors course, there is a focus on analytical writing, exploring the work through primary source research. Additionally, there is an emphasis on a higher degree of student participation and leadership in class discussions and other interactive teaching/learning techniques that are generally not suitable for larger undergraduate classes. This course examines visual culture as it develops from the Early Renaissance in Italy and Northern Europe through Modern Art. Emphasis is given to the social, political, historical, and economic forces that give meaning and context to the art. The art is also examined through the lens of critical theory.

**ARTS 001D SURVEY OF MODERN ART**
- 3 units
- Lecture 3 units; lab 0 units
- Acceptable for credit: University of California, California State University C-ID ARTH 150

This course is a general survey of painting, sculpture, and architecture in the West during the 19th and 20th centuries, emphasizing the evolution of changing attitudes toward form and content. Pass/No Pass Option
### ARTS 001DH HONORS ART OF THE 20TH CENTURY
- 3 units
- Lecture 3 units; lab 0 units
- **Acceptable for credit: University of California, California State University**
- **C-ID ARTH 150**

Honors Art of the 20th Century uses the pedagogical methods common to all Honors courses: interdisciplinary, writing-intensive, collaborative, and experiential instruction. As this is an Honors class, there is a focus on analytical writing, exploring the field through reading primary source research and an emphasis on a high degree of student leadership and participation in class discussions and other interactive teaching/learning techniques that are generally not found in larger undergraduate classes. This course examines visual culture—painting, sculpture, architecture, installation, site-specific, performance and digital art—in the West from the Impressionists to the present day, emphasizing the evolution of changing attitudes toward form and content. Visual culture is analyzed through the lens of modern and postmodern critical theory.

### ARTS 001E DESIGN IN SOCIETY
- 3 units
- Lecture 3 units; lab 0 units
- **Acceptable for credit: University of California, California State University**

This course provides a thematic and a chronological introduction to major types of design around the globe from prehistory to the present. It considers the cultural role of design in finding creative solutions to basic human needs such as shelter, clothing, utilitarian objects, transportation, and communication for social, political, religious, informational, and other purposes. Works by designers from many diverse cultures are studied within their historical and cultural contexts including issues of economic and social class.

### ARTS 001G HISTORY OF PHOTOGRAPHY
- 3 units
- Lecture 3 units; lab 0 units
- **Acceptable for credit: University of California, California State University**

This course traces the technical developments and aesthetic trends in photography from its invention in the nineteenth century to the present day. It includes image presentations, discussions, and viewing of exhibitions.

### ARTS 001J SURVEY OF NON-WESTERN ART: AFRICA, OCEANIA, AND INDIGENOUS NORTH AMERICA
- 3 units
- Lecture 3 units; lab 0 units
- **Acceptable for credit: University of California, California State University**
- **C-ID ARTH 140**

This course is a general survey of painting, sculpture, and architecture in the non-western world and includes Africa, Oceania and Indigenous North America using art as a reflection of human interaction with events of the time, emphasizing aesthetic, cultural, and historical values.

### ARTS 004 ART APPRECIATION
- 3 units
- Lecture 3 units; lab 0 units
- **Acceptable for credit: University of California, California State University**
- **C-ID ARTH 100**

This course provides an introductory overview to general trends and concepts of visual expression. Art objects under study are considered both as aesthetic entities in themselves and as crystallization of thoughts and beliefs during different periods of history. Students have an opportunity to gain greater awareness of processes and media required to create art.

### ARTS 007 THE ART OF ASIA
- 3 units; lab 0 units
- **Acceptable for credit: University of California, California State University**
- **C-ID ARTH 130**

This course is a general survey of arts and culture in Asia from prehistory to present. Emphasis is on painting, sculpture, ceramics and architecture of India, China and Japan. Development of artistic ideas and expressions based in cultural interactions from prehistory to present are studied.

### ARTS 010 AMERICAN ART: A MULTICULTURAL APPROACH
- 3 units
- Lecture 3 units; lab 0 units
- **Acceptable for credit: University of California, California State University**

This course is a multicultural history of American Art pre-colonial to contemporary times. The course examines the multiple histories and identities present in American art and culture providing understanding and awareness of their participation within America’s visual expression.

### ARTS 012A ART OF PRE-HISPANIC MEXICO
- 3 units
- Lecture 3 units; lab 0 units
- **Acceptable for credit: University of California, California State University**
- **C-ID ARTH 145**

This course is a general survey of painting, sculpture and architecture from the main civilizations of Pre-Hispanic Mexico emphasizing aesthetic, cultural and historical values of the times.

### ARTS 012B ART OF COLONIAL & MODERN MEXICO
- 3 units
- Lecture 3 units; lab 0 units
- **Acceptable for credit: University of California, California State University**
- **C-ID ARTH 146**

This is a general survey of painting, sculpture and architecture from colonial and modern Mexico as influenced by European civilizations and the emergence of a national art style, emphasizing aesthetic, cultural, and historical values of the times.

### ARTS 013 AFRICAN-AMERICAN ART HISTORY
- 3 units
- Lecture 3 units; lab 0 units
- **Acceptable for credit: University of California, California State University**

This course is a brief survey of the art of West African civilizations and the art of African Americans from colonial to contemporary time. It examines ways in which African American art has alternately reflected, shaped, and challenged such important historical events and currents as the Harlem Renaissance, the Civil Rights and Black Power movements, the Women’s movement, and contemporary identity politics.

### ARTS 014 WOMEN IN ART HISTORY
- 3 units
- Lecture 3 units; lab 0 units
- **Acceptable for credit: University of California, California State University**

This course is a survey of women in Western Art. Specifically, it traces the representation of Woman in art history, the emergence of the female artist, and the examination of feminist theory in art history. It includes an examination of the major art periods, theories, criticism, and feminist criticism.
ARTS 031A BEGINNING DRAWING
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
C-ID ARTS 110
This course provides students the opportunity to refine their basic design skills through an emphasis on creative expression. This course emphasizes the concepts of proportion, structure, modeling, movement, and description of the human form. A variety of drawing media are used including color media. Pass/No Pass Option

ARTS 031B EXPRESSIVE DRAWING
3 units
Lecture 2 units; lab 1 unit
Advisory: ARTS 031A
Acceptable for credit: University of California, California State University
C-ID ART 205
Familiarization with the human form in terms of mass, weight, dimension, and scale, value/contrast, modeling with light and shade, planar relationships, and surface texture is emphasized. Pass/No Pass Option

ARTS 031C REPRESENTATIONAL DRAWING
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
In this course, students have the opportunity to expand their understanding of rendering a physical likeness of three-dimensional form in black and white media. Concepts such as linear and atmospheric perspective, proportioning and scale, value/contrast, modeling with light and shade, planar relationships, and surface texture are emphasized. Pass/No Pass Option

ARTS 033A TWO-DIMENSIONAL DESIGN
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
C-ID ARTS 100
This course offers an introduction to the principles, elements, and terminology of two-dimensional design. Design elements such as line, value, texture, shape, and basic color are organized by various principles such as repetition, variety, balance, and proportion. A wide variety of media will be used. Pass/No Pass Option

ARTS 033C COLOR DESIGN
3 units
Lecture 2 units; lab 1 unit
Advisory: ARTS 033A
Acceptable for credit: University of California, California State University
C-ID ARTS 270
Students have the opportunity to refine their basic design skills through the use of color concepts based on theory and expression. Projects focus on color attributes such as hue, value, intensity, weight, distance, temperature, color schemes, and color interaction. Pass/No Pass Option

ARTS 035A BEGINNING LIFE DRAWING
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
C-ID ARTS 200
This course provides students the opportunity to study the fundamentals of the human figure by drawing from life in a variety of black and white media. Familiarization with the human form in terms of mass, weight, dimension, and structure are emphasized through a variety of assignments stressing contour, gesture, surface modeling, light, and proportion. Pass/No Pass Option

ARTS 035B INTERMEDIATE LIFE DRAWING
3 units
Lecture 2 units; lab 1 unit
Prerequisite: ARTS 035A
Acceptable for credit: University of California, California State University
This course provides students the opportunity to refine basic figure drawing skills through an emphasis on creative expression. This course emphasizes the concepts of proportion, structure, modeling, movement, and description of the human form. A variety of drawing media are used including color media. Pass/No Pass Option

ARTS 035C INTERMEDIATE-ADVANCED LIFE DRAWING
3 units
Lecture 2 units; lab 1 unit
Advisory: ARTS 035B
Acceptable for credit: University of California, California State University
This course provides students the opportunity to explore an expanded variety of drawing media combined with traditional approaches to develop an independent critical judgment. This course emphasizes the concepts of proportion, structure, modeling, movement, and description of the human form. A variety of drawing media are used including color media. Pass/No Pass Option

ARTS 035D ADVANCED LIFE DRAWING
3 units
Lecture 2 units; lab 1 unit
Advisory: ARTS 035C
Acceptable for credit: University of California, California State University
This course provides students the opportunity to explore an expanded variety of drawing media combined with traditional approaches to develop an independent critical judgment. Pass/No Pass Option

ARTS 047A BEGINNING WATERCOLOR
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
In this class students are introduced to basic techniques and applications of traditional materials associated with painting in aqueous media. Pass/No Pass Option

ARTS 047B INTERMEDIATE WATERCOLOR
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
In this class students have the opportunity to refine their technical skills associated with watercolor and related aqueous media. The focus of this class is on paint handling, using appropriate compositional structure and color necessary to the development of a personal style. Pass/No Pass Option

ARTS 047C INTERMEDIATE-ADVANCED WATERCOLOR
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
In this class students have the opportunity to refine their technical skills associated with watercolor and related aqueous media. The focus of this class is on paint handling, using appropriate compositional structure and color necessary to the development of a personal style. Further development of a personal style is encouraged in this class in combination with art historical research. Pass/No Pass Option

ARTS 047D ADVANCED WATERCOLOR
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
In this course, students continue their study of personal artistic direction by developing a cohesive body of work within the confines of watercolor or other aqueous media. Projects focus on series and theme development. Studio work is supplemented with painting-oriented research, writing, and verbal appraisals. Pass/No Pass Option

- PREREQUISITES AND COREQUISITES are MANDATORY. See page 5 for specific information.
- Courses used to meet prerequisite requirements must have been completed with a grade of C or Pass or better.
ARTS 049A BEGINNING PAINTING
3 units
Lecture 2 units; lab 1 unit
Advisory: ARTS 031A and ARTS 033A
Acceptable for credit: University of California, California State University
C-ID ARTS 210
In this course students have the opportunity to learn the elements of painting using a variety of techniques, materials, and tools. Structure, composition, paint handling, light affects, and color theory are stressed in relationship to the painting process and a variety of subject matter. Pass/No Pass Option

ARTS 049B INTERMEDIATE PAINTING
3 units
Lecture 2 units; lab 1 unit
Advisory: ARTS 049A
Acceptable for credit: University of California, California State University
In this course, students have the opportunity to refine basic painting skills in addition to expand understanding of paint handling, structure and volume, perspective, composition, and color theory. Students continue research of materials and techniques and begin to focus on creative expression. Pass/No Pass Option

ARTS 049C INTERMEDIATE-ADVANCED PAINTING
3 units
Lecture 2 units; lab 1 unit
Advisory: ARTS 049B
Acceptable for credit: University of California, California State University
In this course, students have the opportunity to pursue personal style and interests. Advanced theories of composition and color are covered through studio practice and research of the history of painting. Alternative painting surfaces and materials in combination with traditional approaches are explored. Pass/No Pass Option

ARTS 049D ADVANCED PAINTING
3 units
Lecture 2 units; lab 1 unit
Advisory: ARTS 049C
Acceptable for credit: University of California, California State University
In this course students have the opportunity to intensify their study of personal artistic direction through developing a cohesive body of work. Projects focus on series and theme development. Studio work is supplemented with painting-oriented research, writing, and verbal analysis. Pass/No Pass Option

ARTS 055 INTRODUCTION TO COMPUTER ARTS
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
This course provides students with an opportunity to explore fundamental theories and methods of creating computer art and the impact of technology on 20th century art production. It introduces students to digital imaging, digital video/animation, and interactive authoring which utilizes hands-on contemporary art strategies.

ARTS 057A ANIMATION I
4 units
Lecture 3 units; lab 1 unit
Acceptable for credit: California State University
This course provides students with a comprehensive introduction to the production of computer generated art imagery. It covers fundamental modeling techniques, texture mapping, lighting, rendering, and basic animation concepts.
ARTS 057B ANIMATION II
4 units
Lecture 3 units; lab 1 unit
Prerequisite: ARTS 057A
Acceptable for credit: California State University
This course provides students with the opportunity to develop intermediate computer generated imaging (CGI) skills. Topics include mechanical and organic modeling, UV mapping and shading, best practices for lighting with default render engines, basic bi-pedal character rigs, rendering parameters for basic editing.

ARTS 057C ANIMATION III
4 units
Lecture 3 units; lab 1 unit
Prerequisite: ARTS 057B
Acceptable for credit: California State University
This course provides students with the opportunity to develop intermediate to advanced computer generated imaging (CGI) skills. Topics include realistic organic modeling and UV mapping, multi-node shading networks, photo-real lighting environments, advanced rigging set-up and animation techniques, including dynamic simulations, rendering and editing.

ARTS 062A BASIC PHOTOGRAPHY
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
This course is an introduction to the processes, principles, and tools of photography. Topics include the development of technical and aesthetic skills, elements of design and composition, camera technology, materials and equipment, and contemporary trends in photography. This course is an investigation of the historical and practical aspects of photography as an art form. This course offers students the opportunity to gain a solid understanding of the theory and practice of photography by developing a point of view about the variety of possibilities for the photographic image in our culture. Pass/No Pass Option

ARTS 062B BLACK AND WHITE PHOTOGRAPHY
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
This course continues the investigation of the historical and practical aspects of photography with a focus on the black and white image. Students have the opportunity to examine not only their own work, but the work of masters in the field to gain a better understanding of the tools necessary to create more compelling compositions. Pass/No Pass Option
ARTS 062C COLOR PHOTOGRAPHY
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: California State University
This course continues the investigation of the historical and practical aspects of photography with a focus on the color digital photography. Students have the opportunity to examine not only their own work, but the work of masters in the field to gain a better understanding of the tools necessary to create more compelling compositions. Pass/No Pass Option

ARTS 062D STUDIO PHOTOGRAPHY
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: California State University
This beginning studio lighting course introduces the students to basic portrait and product lighting techniques. Students have the opportunity to use one, two and three light studio portrait configurations. Students have the opportunity to explore different lighting arrangements for metal, glass, fabric, and food along with all aspects of beginning studio photography. Pass/No Pass Option

ARTS 065A CERAMICS - HANDBUILDING
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
This course is an introduction to two- and three-dimensional ceramic design, focusing on clay compositions, decoration techniques and hand-building techniques. This course includes art theories as they relate to ceramics and a survey of ceramic artists and history. This course gives students an opportunity to develop awareness and vocabulary leading to critical thinking and exploration of the physical properties of clay for creative expression. Pass/No Pass Option

ARTS 065B CERAMICS-HANDBUILDING II
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
This is an intermediate course in ceramics hand-building techniques, kilns, clay body construction, and ceramic decorative effects. The course includes further development of 3-D design concepts, self expression, as well as art theories as they relate to ceramics and a survey of ceramic artists and history. This course gives students the opportunity to develop a critical awareness and vocabulary leading to independent critical thinking. Pass/No Pass Option

ARTS 065C CERAMICS-HANDBUILDING III
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
This advanced course explores additional course content and further develops artistic skills including large-scale building, slip-casting, organic burn-out, and various firing techniques. The course gives students an opportunity to develop a critical awareness and vocabulary leading to independent critical thinking. Pass/No Pass Option

ARTS 065D ADVANCED HANDBUILT CERAMICS IV
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
This advanced course focuses on clay formulations, multi-part slip casting, kiln firing, and creating a consistent body of work with a focus on content and aesthetic. The course gives students an opportunity to develop a critical awareness and vocabulary leading to independent critical judgment. Pass/No Pass Option

ARTS 067A CERAMICS - POTTER'S WHEEL
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
This course is an introduction to wheel throwing and decoration techniques. This course includes vocabulary and art theories as they relate to ceramics and a survey of ceramic artists and history. This course gives students an opportunity to develop awareness and vocabulary leading to critical thinking and exploration of the physical properties of clay for functional ware and creative expression. Pass/No Pass Option

ARTS 067B CERAMICS - POTTER'S WHEEL
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
This wheel throwing course directed toward refinement of skills on the wheel, complex thrown ceramics ware, and a combination of hand built and wheel thrown forms. This course includes vocabulary and art theories as they relate to ceramics and a survey of ceramic artists and history. This course gives students an opportunity to develop awareness and vocabulary leading to critical thinking and exploration of the physical properties of clay for functional ware and creative expression. Pass/No Pass Option

ARTS 081 3-DIMENSIONAL DESIGN
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
This course focuses on theory and application of three-dimensional form in visual art and design. It provides studio practice in the fundamental elements and principles of designing objects in 3-dimensions. A variety of media is used. Pass/No Pass Option

ARTS 085A SCULPTURE
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
This course introduces traditional and contemporary sculptural techniques, including casting, reductive/carving, and additive/fabrication techniques. Contemporary and historical art movements and concepts are introduced. This course gives students an opportunity to develop critical awareness and vocabulary leading to independent critical thinking. Pass/No Pass Option

ARTS 085B SCULPTURE
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
This course introduces metal casting in bronze and aluminum using investment molds, ceramic shell molds, and green sand casting. Contemporary and historical art movements and concepts are introduced. This course gives students an opportunity to develop critical awareness and vocabulary leading to independent critical thinking. Pass/No Pass Option

ARTS 088A METAL SCULPTURE CASTING
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
This course introduces metal casting in bronze and aluminum using investment molds, ceramic shell molds, and green sand casting. Contemporary and historical art movements and concepts are introduced. This course gives students an opportunity to develop critical awareness and vocabulary leading to independent critical thinking. Pass/No Pass Option

• ADVISORY is a recommended preparation, NOT a REQUIREMENT.
• This catalog is subject to change and may be incomplete. Please consult the addenda at westvalley.edu/catalog
**ARTS 088B METAL SCULPTURE CASTING**
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University

This course is a continuation of metal casting in bronze and aluminum using investment molds, ceramic shell molds, and green sand casting. Students will learn how to cast larger, more complicated forms, patina application, and welding. Contemporary and historical art movements and concepts are discussed. This course gives students an opportunity to develop critical awareness and vocabulary leading to independent critical thinking. Pass/No Pass Option

**ARTS 095 NEW MEDIA AND SOCIAL CHANGE**
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University

This course investigates how web-based technologies, internet multimedia, and photography have assisted in causing social change around the world through images. Evidence of social change from significant historical photographic images from famous photographers with a variety of diverse backgrounds are explored for social and political context. The course also covers critical analysis of shifting perceptions and expectations regarding race, gender, religion, sexual orientation, cultural identity, and ethnicity in contemporary web-based visual media. Pass/No Pass Option

**Astronomy**

**THE FACULTY**
Benjamin Mendelsohn
Doug Epperson

**DIVISION**
Science and Math

**DEAN**
Laura Hyatt

**DEPARTMENT CHAIR**
Doug Epperson

**PHONE**
408-741-4662

**EMAIL**
Doug.Epperson@westvalley.edu

**COUNSELING**
408-741-2009

**Learning Outcomes**
After completing courses in Astronomy, a student will be able to:
- Apply concepts and methods of inquiry appropriate to the field of astronomy;
- Solve conceptual and numerical problems;
- Demonstrate appropriate laboratory skill;
- Choose and use appropriate methods to present concepts and data.

**ASTR 002 ASTRONOMY LABORATORY**
1 unit
Lecture 0 units; lab 1 unit
Corequisites: ASTR 010 or 011 or previous completion of ASTR 10 or 11
Acceptable for credit: University of California, California State University

This course is a hands-on approach to learning astronomical data-collecting methods that reinforces the concepts learned in Astronomy 010 or 011. Methods include use of the planetarium instrument, celestial globes, spectrometers, optical benches, computer simulations and analysis tools. Pass/No Pass Option

**ASTR 005 PLANETARIUM ASTRONOMY**
2 units
Lecture 2 units; lab 0 units
Acceptable for credit: California State University

Naked eye astronomy is taught using the planetarium as a space simulator and teaching tool. Students have the opportunity to find and recognize northern hemisphere constellations and identify their brightest stars. The motion of the starry skies including celestial viewing of moon and planets is studied. Telescopes and methods of analyzing starlight are introduced. A brief history of astronomy from an earth centered to expanding universe view is presented. Planetarium astronomy makes use of our campus planetarium and, when practical, visit(s) to Bay Area planetarium(s). This class is also useful to prospective teachers and youth leaders. Pass/No Pass Option

**ASTR 010 SOLAR SYSTEM ASTRONOMY**
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University

This is a course in descriptive Astronomy, with emphasis on evolution, structure and behavior of the Solar System and its contents. The course commences with a study of the night sky including the motions of the Sun, Moon, planets and stars. The motions of the celestial bodies are explained in the historical context of geocentric and heliocentric models. The origins of the solar system are explored followed by a study of the Terrestrial planets utilizing comparative planetary geology. The atmospheres of the Terrestrials and Jovians are investigated; followed by an exploration of moons, ring systems, asteroids and comets. Pass/No Pass Option

**PREREQUISITES AND COREQUISITES are MANDATORY.** See page 5 for specific information.

**Courses used to meet prerequisite requirements must have been completed with a grade of C or Pass or better.**
ASTR 011 STELLAR ASTRONOMY
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
This is a course in descriptive Astronomy, with emphasis on stars: their origin and evolution, their distribution within the galaxies and the origin of the universe within which the galaxies of stars are found. The course commences with a study of the night sky including the motions of the Sun, Moon, planets and stars. The motions of the celestial bodies are explained in the historical context of geocentric and heliocentric models. The course also covers the nature of light and employs telescopic observations to explore the properties of stars and their evolution. An investigation of the stages in the life of a star from birth to the different forms of stellar death is also offered. The course also examines the origins of the galaxies and the fate of the Universe. Pass/No Pass Option

ASTR 014 LIFE IN THE UNIVERSE
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
This is an introductory course in astronomy for the non-science major. Topics include study of the night sky and the motions of the objects in the heavens as seen from Earth, study of the birth, life and death of stars including Einstein’s theory of relativity as applied to black holes. Laboratory work includes observation and application of concepts discussed in lectures, computer simulations, planetarium simulations, and field work. Pass/No Pass Option

ASTR 020 FAMILY OF THE SUN
4 units
Lecture 3 units; lab 1 unit
Acceptable for credit: University of California, California State University
This is an introductory course in astronomy for the non-science major. Topics include study of the night sky and the motions of the objects in the heavens as seen from Earth, examination of the structure and behavior of the Solar System and its contents, planetary geology, planetary atmospheres, the search for other solar systems and the possibility of the existence of extraterrestrial life. Laboratory work includes observation and application of concepts discussed in lectures, computer simulations, planetarium simulations, and field work. Pass/No Pass Option

ASTR 020H HONORS FAMILY OF THE SUN
4 units
Lecture 3 units; lab 1 unit
Acceptable for credit: University of California, California State University
Honors Astronomy uses the pedagogical methods common to all Honors courses: interdisciplinary, writing intensive, collaborative, and experiential instruction. Course content makes connection through a common theme with other courses offered within the specified trans disciplinary unit. Topics include study of the night sky and the motions of the objects in the heavens as seen from Earth, study of the birth, life and death of stars including Einstein’s theory of relativity as applied to black holes. Laboratory work includes observation and application of concepts discussed in lectures, computer simulations, planetarium simulations, and field work. Pass/No Pass Option

ASTR 021 LIFESTYLES OF THE STARS
4 units
Lecture 3 units; lab 1 unit
Acceptable for credit: University of California, California State University
This is an introductory course in astronomy for the non-science major. Topics include study of the night sky and the motions of the objects in the heavens as seen from Earth, study of the birth, life and death of stars including Einstein’s theory of relativity as applied to black holes. Laboratory work includes observation and application of concepts discussed in lectures, computer simulations, planetarium simulations, and field work. Pass/No Pass Option

ASTR 021H HONORS LIFESTYLES OF THE STARS
4 units
Lecture 3 units; lab 1 unit
Acceptable for credit: University of California, California State University
Honors Astronomy uses the pedagogical methods common to all Honors courses: interdisciplinary, writing intensive, collaborative, and experiential instruction. Course content makes connection through a common theme with other courses offered within the specified trans disciplinary unit. Topics include study of the night sky and the motions of the objects in the heavens as seen from Earth, study of the birth, life and death of stars including Einstein’s theory of relativity as applied to black holes. Laboratory work includes observation and application of concepts discussed in lectures, computer simulations, planetarium simulations, and field work. Pass/No Pass Option

ASTR 022 FROM BIG BANG TO BLACK HOLES
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
This is an introductory course in Cosmology. Topics include an examination of the technologies (telescopes, particle accelerators and neutrino detectors) that are used to study the Cosmos, the study of interactions of light, matter, space-time and gravity, and the study of the history of the Universe including the Big Bang, cosmic expansion, inflation, large scale structure, dark matter & dark energy. Pass/No Pass Option

ASTR 030 FIELD ASTRONOMY
1 unit
Lecture 1 unit; lab 0 units
Corequisite: GEOL 030
Acceptable for credit: California State University
This is a lecture course conducted partially in the field, whose location may change from semester to semester. This allows students to study, through direct observation, the night sky. The class uses direct visual and telescopic observations of the sky to help explain solar system, stellar and galactic objects. The course includes pre-trip lecture meetings that cover the fundamentals of the motion of the heavens, star charts and telescope optics. Hiking, observations and overnight camping are required. Pass/No Pass Option
Aviation

THE FACULTY
Christopher Cruz
Benjamin Mendelsohn

Certificate:
Unmanned Aircraft System Technology

UNMANNED AIRCRAFT TECHNOLOGY
Certificate of Achievement

This certificate is designed to prepare students to enter the Unmanned Aircraft Technology field. The required course work provides the students with the skills to manage and plan flight operations. Students demonstrate the ability to collect and process imagery data for analysis. Students also develop skills that they can apply in multiple applications including agriculture, natural and cultural resources management, emergency response, aerial videography and photography.

Upon completing this certificate, students should be able to:

a. Demonstrate a basic knowledge of aircraft systems, to include airframe, power plants and flight instruments.
b. Demonstrate a basic knowledge of Unmanned Aircraft Systems including fixed wing and rotor-wing Unmanned Aircraft Systems.
c. Demonstrate knowledge of image acquisition and analysis from images acquired by Unmanned Aircraft Systems.
d. Select the type of Unmanned Aircraft System for a specific mission and identity types of payload to be carried and to complete a mission.

Potential careers students may enter upon completing this certificate are:

- UAS Operator
- UAS Maintenance Technician
- Aerial Videographer
- UAS Marketing Specialist
- Drone Facilitator
- Sales and Account Manager for Drones
- Field Service Technician
- UAV Pilot
- Avionics Technician
- UAS Trainer
- Remotely Piloted Aircraft Sensor Operator
- Drone Instructor
- Remote Sensing Data Management Specialist

This is a new and emerging field so standards are still evolving. The FAA (Federal Aviation Administration) is currently developing training standards for UAS Operators and UAS Technicians. The FAA has set regulations for commercial operations and businesses that operate UAS must have a Section 333 exemption. Public entities like government/public agencies must have Certificates of Authorization for the aircraft they fly and the locations they fly in. Also, they need to have an airworthiness certificate. There will be a small UAS Rule approved this summer by the FAA.

<table>
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<th>Units</th>
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<td>AVIA 30A</td>
<td>Aviation-Pilot Ground School</td>
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<td>AVIA 30B</td>
<td>Introduction to Unmanned Aircraft Systems</td>
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<td>AVIA 30C</td>
<td>UAS Image Analysis and Visualization</td>
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<td>AVIA 30D</td>
<td>UAS Flight Operations and Flight Planning</td>
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<tr>
<td>PKMGT 016G</td>
<td>Introduction to Remote Sensing</td>
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</tr>
<tr>
<td>PKMGT 016A</td>
<td>Introduction to Geospatial Technology</td>
<td>3</td>
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</table>

Total Certificate Units: 15 units

For related courses (See Park Management)
The Department of Biology at West Valley College offers an array of courses in different fields of biology. These courses are offered in support of the general education requirements in the natural sciences. Many of these courses fulfill the required transfer requirements to four-year programs at other institutions. It is recommended that students consult with the university they plan to attend to make sure that all lower division transfer requirements have been fulfilled. Prospective transfer students can visit assist.org for further information.

**Career Options**
- Athletic Trainer
- Biologist
- Biotechnology
- Botanist
- Cell Biologist
- Chiropractic
- Conservation Biologist
- Dentist
- ECG Technician
- Ecologist
- Educator
- Environment
- Environmental Lawyer
- Genetic Engineering
- Geneticist
- Habitat Restoration
- Marine Biologist
- Medical Assistant
- Medical Researcher
- Medicine
- Microbiologist
- Molecular Biologist
- Naturalist
- Nurse
- Nutritionist
- Occupational Therapist
- Park Management
- Pharmacist
- Physical Therapist
- Physician’s Assistant
- Researcher
- Science Writer/ Journalist
- Scientific Illustration
- Sports Medicine
- Ultrasound Technician
- Veterinary Medicine
- Wild Life Biologist
- X-ray Technician
- Zoologist

**ASSOCIATE IN SCIENCE IN BIOLOGY FOR TRANSFER DEGREE (AS-T in Biology)**

The Associate in Science in Biology for Transfer degree (AS-T in Biology) is a 60-unit program which provides students the lower division coursework required for transfer to a CSU institution for the major in Biology.

Students who complete the AS-T in Biology will be able to communicate core biological principles both orally and in writing. These principles include but are not limited to the following:
- the procedures of the scientific method, the results of experiments, and their analysis of biological problems;
- the setup of experiments implementing the scientific method, collection and analysis of data, identification of sources of errors, and interpretation of results;
- use of critical thinking and observational skills when applying knowledge of biological principles and concepts to novel problems, demonstration of knowledge of the relationship between structure and function in biological systems;
- understanding of how principles of evolution by natural selection impact living systems, how information stored in DNA is transmitted and expressed in biological systems, and how conversion of matter and energy are fundamental in living systems.

Students must complete the following requirements:
- A minimum of 60 semester or 90 quarter CSU-transferable units
- the California State University-General Education-Breadth pattern (CSU GE-Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.
- a minimum of 18 semester or 27 quarter units in the major or area of emphasis as determined by the community college district.
- obtainment of a minimum grade point average (GPA) of 2.0
- earn a grade of C or better in all courses required for the major or area of emphasis.

Students are not required to complete the information competency requirements. PE requirements or cultural diversity requirements found in other degrees at the College.

<table>
<thead>
<tr>
<th>Course ID</th>
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<td>BIOL 040</td>
<td>Organismal Biology</td>
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<td>BIOL 043</td>
<td>Principles of Cell Biology</td>
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<tr>
<td>List A: Students should take either PHYS 002A and PHYS 002B OR PHYS 004A and PHYS 004B. 25 units</td>
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<td>CHEM 001</td>
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<td>CHEM 001B</td>
<td>General Chemistry</td>
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<tr>
<td>MATH 003A</td>
<td>Calculus and Analytic Geometry</td>
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<tr>
<td>PHYS 002A</td>
<td>General Physics - Mechanics</td>
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<tr>
<td>PHYS 002B</td>
<td>General Physics - Electricity and Magnetism</td>
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<tr>
<td>OR</td>
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</table>

**ADVISORY** is a recommended preparation, **NOT** a REQUIREMENT.

This catalog is subject to change and may be incomplete. Please consult the addenda at westvalley.edu/catalog/
BIOLOGICAL SCIENCES
A.S. Degree

The Associate of Science in Biological Sciences program supports students wishing to transfer whose academic pathways include a variety of biological based degrees, ranging from health sciences to zoology, or students who wish to grow in their critical thinking and analytical abilities that are present in the Biological Sciences or other disciplines. Upon completion of the program students should demonstrate the ability to apply the scientific method; use critical thinking and/or utilize observational skills to apply biological knowledge to a novel problem; exhibit proper use of laboratory and/or field equipment, techniques and/or technology. Students should demonstrate understanding of basic principles of biology such as, cell theory, genetics, evolution by natural selection, patterns of forms and function, conversion of matter and energy in biological systems, and understand the background of current issues related to health and the environment so they may make informed decisions. The Biological Sciences support a wide array of transfer majors. Students should consult counselors at both West Valley College and their transfer institutions to determine the Biological Sciences A.S. course pathway most suitable for the degree they seek.

After completing an Associate of Science degree in Biology, a student will be able to:

- Demonstrate proper use of laboratory equipment, techniques and/or technology commonly employed in the field of Biology;
- Demonstrate critical thinking and observational skills by applying knowledge of biological principles and concepts to a novel problem;
- Demonstrate knowledge of the scientific method by applying to a laboratory problem.

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<td>BIOL 042</td>
<td>Principles of Plant Biology</td>
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</tr>
<tr>
<td>BIOL 043</td>
<td>Principles of Cell Biology</td>
<td>5</td>
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<tr>
<td>BIOL 045</td>
<td>Microbiology</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 047</td>
<td>Human Anatomy</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 048</td>
<td>Human Physiology</td>
<td>5</td>
</tr>
</tbody>
</table>

Electives List A. 2 Courses Different from above

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 002</td>
<td>Environmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 002L</td>
<td>Environmental Biology Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Major Units 34
GE Units (CSU GE or IGETC) 33 or 31
Total Degree Units 60

CSU transferable elective courses are required when the major units plus transfer GE units total is less than 60

For crosswalk of new subject codes, see page 61

Recommended Course Sequence:

Fall, Year 1 (9 Units):
BIOL 040, MATH 003A

Spring, Year 1 (5 Units):
CHEM 001A

Fall, Year 2 (10 Units):
CHEM 001B, PHYS 002A or PHYS 004A

Spring, Year 2 (10 Units):
BIOL 043, PHYS 002B or PHYS 004B

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>BIOL 010</td>
<td>Introduction to Biology</td>
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<td>AND</td>
<td></td>
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<td>BIOL 010L</td>
<td>Introduction to Biology Lab</td>
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<tr>
<td>BIOL 011</td>
<td>Human Biology</td>
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<tr>
<td>BIOL 012</td>
<td>Introduction to Ecology and Wildlife</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 013</td>
<td>Natural History of California</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 014</td>
<td>California Plants and Animals</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 018</td>
<td>Marine Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 022</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 023</td>
<td>Introduction to Infectious Diseases</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 024</td>
<td>Bio in the News</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 025</td>
<td>Lab Technician Methods</td>
<td>2</td>
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<tr>
<td>BIOL 027</td>
<td>Scientific Literacy and Technical Writing</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 036</td>
<td>Animal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 035</td>
<td>Biology of Birds</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 037</td>
<td>Evolution - Life on Earth</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 038</td>
<td>Biodiversity and Extinction: Hotspots, Crisis and Conservation</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 040</td>
<td>Organismal Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 041</td>
<td>Principles of Animal Biology</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 042</td>
<td>Principles of Plant Biology</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 043</td>
<td>Principles of Cell Biology</td>
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</tr>
<tr>
<td>BIOL 045</td>
<td>Microbiology</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 047</td>
<td>Human Anatomy</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 050</td>
<td>Human Cadaver Dissection</td>
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</tr>
<tr>
<td>BIOL 055</td>
<td>Biology of Sex</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 056</td>
<td>Ecology of the Sierra Nevada</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 048</td>
<td>Human Physiology</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 058</td>
<td>Field Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 059</td>
<td>Climate Change</td>
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Electives List B. Minimum 1 course

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 001A</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 030A</td>
<td>Fundamentals of Chemistry</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Major Units 21-30

To be awarded an A.S. Degree, a student must complete:
1. Achieve a grade of “C” or better in the major requirements.
2. Additional units to meet the college graduation requirements.

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

For crosswalk of new subject codes, see page 61

Recommended Course Sequence:

Fall, Year 1 (4-5 Units):
CHEM 030A or CHEM 001A

Spring, Year 1 (5 Units):
BIOL 041 or 047

Spring, Year 1 (2-10 Units):
CHEM 030B or 001B; Choose from List A

- PREREQUISITES AND COREQUISITES are MANDATORY. See page 5 for specific information.
- Courses used to meet prerequisite requirements must have been completed with a grade of C or Pass or better.
ECOLOGY, BIODIVERSITY AND CONSERVATION
A.S. Degree

The goals of the Ecology, Biodiversity and Conservation transfer degree are to educate students in diverse areas of ecological and environmental science in order to understand conservation of the biodiversity found in the natural world. Students will receive a broad overview of topics such as ecological patterns, biodiversity, extinction, conservation, and evolution. The degree may exceed 60 units if students select higher unit courses.

Through this transfer degree, the student will develop the ability to think logically, analyze data, apply critical thinking and scientific methodology, and develop problem-solving skills necessary for success in any field of study. The Ecology, Biodiversity and Conservation major is transferable to four-year universities where students have the opportunity to complete a Bachelor's degree in Biology, Environmental Biology, Ecology, and Evolutionary Biology, Marine Biology, Evolution and Ecology, Integrative Biology, Evolution, Ecology & Biodiversity, Environmental Science, Ecology, Behavior and Evolution, Conservation Biology, Wildlife Management, Conservation and Resource Studies.

Career Options:
- Agricultural Biologist
- Biochemist
- Biologist
- Botanist
- Entomologist
- Environmental Specialist
- Fish and Game Technical Aide
- Fish and Game Warden
- Forester
- Horticulturist
- Habitat Restoration
- Ecologist
- Laboratory Technician
- Ecologist
- Marine Biologist
- Environmental Lawyer
- Park Naturalist/Ranger
- Research Assistant
- Conservation Biologist
- Researcher
- Scientific Illustrator
- Educator
- Technical/Science Writer
- Naturalist
- Park Management
- Veterinarian
- Wildlife Specialist
- Zoo Curator
- Zoologist
- Environmental Consultant
- Environmental Policy and Management
- Green Technology

After completing an A.S. in Ecology, Biodiversity and Conservation, a student will be able to:
- Demonstrate knowledge of the scientific method by applying to a laboratory problem.
- Apply proper use of laboratory equipment, techniques and/or technology commonly employed in the field of biology.
- Demonstrate critical thinking and/or observational skills by applying knowledge of biological principles and concepts to a novel problem.
- Demonstrate knowledge of the relationship between the structure of a biological component (such as an organism or ecological system) and its function.
- Analyze and illustrate how evolution by natural selection can be seen at every level in the hierarchy of life.
- Demonstrate knowledge of how biological systems depend on obtaining, converting and releasing energy and matter.
- Evaluate and demonstrate ability to make informed decisions pertaining to the environment.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 002</td>
<td>Environmental Biology</td>
<td>3</td>
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<tr>
<td>OR</td>
<td>Evolution - Life on Earth</td>
<td>3</td>
</tr>
<tr>
<td>BIO 037</td>
<td>Biodiversity and Extinction: Hotspots, Crisis and Conservation</td>
<td>3</td>
</tr>
<tr>
<td>BIO 012</td>
<td>Introduction to Ecology and Wildlife</td>
<td>4</td>
</tr>
<tr>
<td>BIO 013</td>
<td>Natural History of California</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>California Plants and Animals</td>
<td>4</td>
</tr>
<tr>
<td>BIO 041</td>
<td>Principles of Animal Biology</td>
<td>5</td>
</tr>
<tr>
<td>BIO 042</td>
<td>Principles of Plant Biology</td>
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<td>BIO 040</td>
<td>Organismal Biology</td>
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<td>BIO 002</td>
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<tr>
<td>BIO 013</td>
<td>Natural History of California</td>
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<tr>
<td>OR</td>
<td>California Plants and Animals</td>
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<tr>
<td>BIO 018</td>
<td>Marine Biology</td>
<td>4</td>
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<tr>
<td>BIO 022</td>
<td>Genetics</td>
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<tr>
<td>BIO 024</td>
<td>Contemporary Biology</td>
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<tr>
<td>BIO 035</td>
<td>Biology of Birds</td>
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</tr>
<tr>
<td>BIO 036</td>
<td>Animal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>BIO 037</td>
<td>Evolution - Life on Earth</td>
<td>3</td>
</tr>
<tr>
<td>BIO 038</td>
<td>Biodiversity and Extinction: Hotspots, Crisis and Conservation</td>
<td>3</td>
</tr>
<tr>
<td>BIO 043</td>
<td>Principles of Cell Biology</td>
<td>5</td>
</tr>
<tr>
<td>BIO 055</td>
<td>Biology of Sex</td>
<td>3</td>
</tr>
<tr>
<td>BIO 056</td>
<td>Ecology of the Sierra Nevada</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>Field Ecology</td>
<td>3</td>
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<tr>
<td>BIO 059</td>
<td>Climate Change</td>
<td>3</td>
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<tr>
<td>ANTHR 001</td>
<td>Introduction to Physical Anthropology</td>
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<tr>
<td>ANTHR 003</td>
<td>Introduction to Cultural Anthropology</td>
<td>3</td>
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<tr>
<td>ARCH 060</td>
<td>Green Building and Sustainable Design</td>
<td>3</td>
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<tr>
<td>CHEM 001A</td>
<td>General Chemistry</td>
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<td>CHEM 001B</td>
<td>General Chemistry</td>
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<td>CHEM 012A</td>
<td>Organic Chemistry</td>
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<tr>
<td>CHEM 012B</td>
<td>Organic Chemistry</td>
<td>5</td>
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</tbody>
</table>

- ADVISORY is a recommended preparation, NOT a REQUIREMENT.
- This catalog is subject to change and may be incomplete. Please consult the addenda at westvalley.edu/catalog/
To be awarded an A.S. Degree, a student must complete:
1. All major requirements.
2. Additional units to meet the college graduation requirements. 
   For crosswalk of new subject codes, see page 61
Recommended Course Sequence:
Fall, Year 1 (3 Units):
BIOL 002 or 037 or 038* (note: if choose Biol 38 – avail Spring only)
Spring, Year 1 (3-4 Units):
BIOL 012 and BIOL 013* or BIOL 014 (note: If choose BIOL 013 – avail Fall only)
Fall, Year 2 (4-5 Units):
BIOL 040* or BIOL 041 (note: If choose BIOL 040 – avail Summer only)
Spring, Year 2 (4-5 Units):
BIOL 040* or BIOL 042 (note: If choose BIOL 040 – avail Summer only)
Spring, Year 2 (4-5 Units):
BIOL 040* or BIOL 042 (note: If choose BIOL 040 – avail Summer only)
Elective Courses
Fall, Year 1, Spring Year 1 (6-9 Units):
Choose 2 courses from List A
Fall, Year 2, Spring, Year 2 (5-10 Units):
Choose 2 courses from List B

Total Major Units  25-40

TOTAL CERTIFICATE UNITS  17

Recommended Course Sequence:
Fall, Year 1, example courses listed (8 Units):
BIOL 010 AND BIOL 010L, CHEM 030A
Spring, Year 1 (9 Units):
BIOL 025, BIOL 026, BIOL 027, BIOL 045

BIOL 002 ENVIRONMENTAL BIOLOGY
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
This survey course provides a foundation in environmental issues such as global warming, overfishing, endangered species, human population growth, habitat destruction, energy usage, air and water pollution, resource usage as well as over-consumption in an effort to build sustainable solutions towards solving these problems.

BIOL 002L ENVIRONMENTAL BIOLOGY LABORATORY
1 unit
Lecture 0 units; lab 1 unit
Corequisite: BIOL 002
Acceptable for credit: University of California, California State University
This course is an introduction to methods and analysis in environmental biology in both laboratory and field settings. It includes an introduction to and applications of the scientific method. Principles of ecology, environmental science, sustainability are explored.

• PREREQUISITES AND COREQUISITES are MANDATORY. See page 5 for specific information.
• Courses used to meet prerequisite requirements must have been completed with a grade of C or Pass or better.

For crosswalk of new subject codes, see page 61
BIOL 010 INTRODUCTION TO BIOLOGY
3 units
Lecture 3 units; lab 0 units
Corequisite: BIOL 010L
Acceptable for credit: University of California, California State University
This is an introductory course in general biology designed for non-science majors. Emphasis is on using critical thinking skills to understand and apply biological principles to the solution of everyday problems. Topics discussed include the scientific method, evolution, ecology, cell function and structure, cell energy, DNA and biotechnology, as well as how organisms interact with their internal and external environment. Concurrent enrollment and a passing grade in both the lecture and the laboratory is required to receive credit for transfer as a GE science course with lab. BIOL 010/010L and BIOL 011 meet the same general education requirements. Note: UC will accept credit for only one course, BIOL 010 or BIOL 011/011H, not both. West Valley College will only allow students to take BIOL 010 or BIOL 011/011H, not both.

BIOL 010L INTRODUCTION TO BIOLOGY LAB
1 unit
Lecture 0 units; lab 1 unit
Corequisite: BIOL 010
Acceptable for credit: University of California, California State University
This lab is a required Corequisite to the Biology 010 lecture course. This introductory laboratory class in general biology is designed for non-science majors and covers topics in ecology, evolution, anatomy, cell and molecular biology, and genetics. Emphasis is on using critical thinking skills to understand and apply biological principles to better understanding topics in general biology. Concurrent enrollment and a passing grade in both the lecture and the laboratory is required to receive credit for transfer as a GE science course with lab. BIOL 010/010L and BIOL 011 meet the same general education requirements. Note: UC will accept credit for only one course, BIOL 010 or BIOL 011/011H, not both. West Valley College will only allow students to take BIOL 010 or BIOL 011/011H, not both.

BIOL 011 HUMAN BIOLOGY
4 units
Lecture 3 units; lab 1 unit
Acceptable for credit: University of California, California State University
Using human anatomy and physiology as its medium, this is an introduction course in biology designed for non-science majors. Emphasis is on using critical thinking skills to understand and apply biological principles to the solution of everyday problems. Topics discussed include the scientific method, basic chemistry, genetics, cell structure and function, as well as how human systems interact with their internal and external environment. Laboratory work includes hands on application of concepts discussed in lectures through dissection, computer simulations and field work. A passing grade in both the lecture and the laboratory is required to receive credit for the course. BIOL 010/010L and BIOL 011 meet the same general education requirements. Note: UC will accept credit for only one course, BIOL 010 or BIOL 011/011H, not both. West Valley College will only allow students to take BIOL 010 or BIOL 011/011H, not both.

BIOL 012 INTRODUCTION TO ECOLOGY AND WILDLIFE
4 units
Lecture 3 units; lab 1 unit
Acceptable for credit: University of California, California State University
This non major course is an introduction to the general ecological principles that integrate all life on earth, with special focus on wildlife populations and their natural history. Energy and material flows are covered, along with animal biology, behavior, population dynamics and human impact and management. Laboratory and field exercises emphasize investigative techniques used in scientific studies.

BIOL 013 NATURAL HISTORY OF CALIFORNIA
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
This course explores the plant and animal communities of California. Students have the opportunity to learn about the ecology of California in both the classroom and field settings. Preliminary class meetings are followed by a field trip(s). Students must successfully complete class preparatory requirements in order to participate in the field trip(s). Students are responsible for transportation and costs associated with travel, meals, camping equipment and related expenses.

BIOL 014 CALIFORNIA PLANTS AND ANIMALS
4 units
Lecture 3 units; lab 1 unit
Acceptable for credit: University of California, California State University
This course is a general education course which introduces California plants and animals in an ecological context. An ecosystem approach is used to explain the geographic distribution of lifeforms and their community associations. In-class activities and out-of-class projects involve learning the natural history of California lifeforms, as well as recognizing and naming them. Anyone who is interested in teaching, working in recreation or in park management has the opportunity to learn identification, display, and field techniques. This course also provides an introduction to the natural history of California with an emphasis on plants and animals. The most common life forms from the coast to the mountains are explored within the ecological context. This class is designed for non-majors.

BIOL 018 MARINE BIOLOGY
4 units
Lecture 3 units lab 1 unit
Acceptable for credit: University of California, California State University
This course is a survey of the biological principles of marine science. It is designed to acquaint the student with the natural history of the local coastline, the Monterey Bay and its adjoining areas. The use of oceanographic instruments and marine sampling devices, a descriptive survey of the flora and fauna as found in laboratory study and field trips, and the relationship of the ocean to man are also included.

BIOL 022 GENETICS
4 units
Lecture 3 units; lab 1 unit
Acceptable for credit: University of California, California State University
This general education course is primarily for the non-science major. This is an introduction to the basic principles and concepts of heredity and their application to plants and animals, with emphasis on the heredity process, pedigrees, mutation, medical genetics, recombinant DNA, biotechnology genetics, population genetics.

BIOL 023 INTRODUCTION TO INFECTIOUS DISEASES
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
This introductory biology course explores infectious diseases, parasites, and human immunity. The course begins with a survey of infectious disease agents, including emerging pathogens, agents of bio-terrorism, and newer complications seen in ancient diseases. The course continues by examining how the human immune system responds to these infections and helps students interpret epidemiological patterns of disease in human populations.

BIOL 024 BIO IN THE NEWS
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
This course allows students of all disciplines the opportunity to learn about a wide range of currently relevant biological topics that affect students’ lives including issues relating to the environment, human physiology, genetics, and many others. Students have an opportunity to choose from a variety of basic biological concepts to encourage meaningful discussions of these issues and to help students understand biological concepts in news articles, books, and essays on these topics. Topics may include but are not limited to the affect of love, sleep, or drugs on the brain, biotechnology, cloning, genetic engineering, introduced species, the Anthropocene, neurological disorders, nutrition, cancer, sex reassignment surgery, and more.

* ADVISORY is a recommended preparation, NOT a REQUIREMENT.
* This catalog is subject to change and may be incomplete. Please consult the addenda at westvalley.edu/catalog.
BIOL 025 LAB TECHNICIAN METHODS  
2 units  
Lecture 1 unit; lab 1 unit  
Corequisite: BIOL 043 or BIOL 045  
Acceptable for credit: California State University  
This course covers basic concepts and common methods used by biotech and chemistry lab technicians, including making solutions and media and using of pH meters, autoclaves, sterile and fume hoods, micropipettes, and microscopes. Important practices such as aseptic and sterile technique, lab safety and proper waste disposal are also discussed and demonstrated.

BIOL 026 CERTIFIED QUALITY IMPROVEMENT  
1 unit  
Lecture 1 unit; lab 0 units  
Acceptable for credit: California State University  
This course is designed to combine the content on the Certified Quality Improvement Associate (CQIA) certification exam from the American Society for Quality with an exploration of bioscience industry regulation. The CQIA certification covers the basics of quality, teamwork, and customersupplier relations. This course provides this information in the context of the biotech and biomedical workplace. Pass/No Pass Option

BIOL 027 SCIENTIFIC LITERACY AND TECHNICAL WRITING  
1 unit  
Lecture 1 unit; lab 0 units  
Acceptable for credit: California State University  
This introductory course surveys the writing style and optimal methods for reading, reviewing, and critically analyzing scientific literature. This course covers important sections found in scientific journal articles, how to best write in typical scientific journal style, and how to format and read through the dense information often found in technical writing.

BIOL 035 BIOLOGY OF BIRDS  
4 units  
Lecture 3 units; lab 1 unit  
Acceptable for credit: University of California, California State University  
This course introduces the natural history and biology of birds. The anatomy, ecology, diversity, behavior, and identification of birds are explored through lectures, laboratories, and field trips. The biology of California birds is emphasized. The course is directed towards biology students, science educators (K-12), natural history museum and environmental docents, environmental educators, as well as bird enthusiasts. Students are responsible for transportation and costs associated with travel.

BIOL 036 ANIMAL BEHAVIOR  
3 units  
Lecture 3 units; lab 0 units  
Acceptable for credit: University of California, California State University  
Have you ever wondered why animals behave the way they do? This course explores different aspects of animal behavior ranging from the hardships of growing up, capturing food, escaping, migrating, navigating, communicating, making homes, competing for mates, courting, sex, taking care of offspring to the complex social behavior found in many animals.

BIOL 037 EVOLUTION - LIFE ON EARTH  
3 units  
Lecture 3 units; lab 0 units  
Acceptable for credit: University of California, California State University  
This course is an introduction to the history of life on earth by the exploration of past and current environments through the evolution of different types of species over time. The course emphasizes Darwin’s theory of evolution, the evidence supporting it, mechanisms of evolution as well as modern viewpoints having implications for society and culture.

• PREREQUISITES AND COREQUISITES are MANDATORY. See page 5 for specific information.  
• Courses used to meet prerequisite requirements must have been completed with a grade of C or Pass or better.
BIOL 038 BIODIVERSITY AND EXTINCTION: HOTSPOTS, CRISIS AND CONSERVATION
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
This class surveys the biodiversity on Earth with a focus on plants and animals in selected hotspots across the world. It examines the ecological and evolutionary principles necessary to understand the nature and importance of the worldwide environmental crisis.

BIOL 040 ORGANISMAL BIOLOGY
4 units
Lecture 3 units; lab 1 unit
Prerequisites: MATH 106 or MATH 106R
Acceptable for credit: University of California, California State University
This course, intended for biology majors, is a survey of the basic biology and diversity of unicellular and multi-cellular organisms. It emphasizes general biological principles, classification, structure, function and evolutionary adaptations of organisms (including plants, fungi, animals, and unicellular organisms) to their environments.

BIOL 041 PRINCIPLES OF ANIMAL BIOLOGY
5 units
Lecture 3 units; lab 2 units
Prerequisites: BIOL 010 or BIOL 011 or equivalent high school biology course, MATH 106 or MATH 106R
Advisory: BIOL 043
Acceptable for credit: University of California, California State University
This course is intended for biology majors and introduces the principles and concepts of animal biology. The material includes a survey of animal phyla and non-photosynthetic, single-celled, eukaryotic taxa and covers the comparative structure, function, and life cycles of animals, as well as principles of evolution, taxonomy, and systematics. Topics include development, morphology and physiology, phylogeny, and behavior of animals, as well as principles of evolution, mechanisms of evolutionary change, and speciation.

BIOL 042 PRINCIPLES OF PLANT BIOLOGY
5 units
Lecture 3 units; lab 2 units
Prerequisite: MATH 106/106R
Advisory: BIOL 043
Acceptable for credit: University of California, California State University
This course for biology majors surveys basic principles of the plant sciences by examining all levels of biological organization. It covers comparative diversity, structure, and function of plant, fungal and protistan phyla. Topics include development, morphology and physiology, taxonomy, systematics, and evolution. Principles of population and community ecology and ecosystem interactions are emphasized. Laboratory activities include microscopic work, experimental physiology, and studies of biodiversity, natural history and ecology. Field trips to several ecosystems in the Bay Area provide numerous opportunities to study local flora.

BIOL 043 PRINCIPLES OF CELL BIOLOGY
5 units
Lecture 3 units; lab 2 units
Prerequisites: CHEM 001A; MATH 106 or MATH 106R; and BIOL 010 or BIOL 011 or Successful completion of any college biology course
Acceptable for credit: University of California, California State University
This course is designed for majors, covers principles and applications of prokaryotic and eukaryotic cell structure and function, taxonomy, viruses, biological molecules, homeostasis, cell reproduction and its controls, molecular genetics, genetic engineering, mitosis, cell metabolism including photosynthesis and respiration, cellular communication, and hypotheses of the origin of life. Laboratory exercises demonstrate lecture concepts, and give students practical experience in performing standard laboratory methods used in cell biology. The philosophy of science, methods of scientific inquiry and experimental design are foundational to the course. This course is designed to complete the preparation of the biology and pre-professional major for specialized upper division courses.

BIOL 045 MICROBIOLOGY
5 units
Lecture 3 units; lab 2 units
Prerequisite: BIOL 010 or BIOL 011 or Successful completion of any college biology course; and CHEM 002 or CHEM 001A or CHEM 030A or Successful completion of any college chemistry course
Acceptable for credit: University of California, California State University
This class surveys the biodiversity on Earth with a focus on plants and animals. Some experiments will be carried out on the students' organism. The student has the opportunity to gain experience with basic laboratory skills common in the field of microbiology.

BIOL 047 HUMAN ANATOMY
5 units
Lecture 3 units; lab 2 units
Prerequisite: BIOL 010 or BIOL 011 or Successful completion of any high school biology course. (Course should include an overview of cellular structure, cellular function, cell division and the scientific method.)
Acceptable for credit: University of California, California State University
This course is designed for nursing and other majors in life science. This course serves as an introduction to microorganisms and the laboratory techniques employed in their study. The characteristics, particularly of bacteria, but also including viruses, algae, fungi, and protozoa will be studied with emphasis on their relationship to human life. Laboratory work includes studying morphology, culturing methods, and biochemical characteristics of microorganisms. The student has the opportunity to gain experience with basic laboratory skills common in the field of microbiology.

BIOL 048 HUMAN PHYSIOLOGY
5 units
Lecture 3 units; lab 2 units
Prerequisites: BIOL 047; CHEM 002 or CHEM 030A or CHEM 001A
Acceptable for credit: University of California, California State University
This course for health professionals covers the principles and concepts of human anatomy through the comprehensive study of the gross and microscopic structure of the human body. Lab consists of human cadaver examination, specimen dissection, and microscopic examination of human tissues.

• ADVISORY is a recommended preparation, NOT a REQUIREMENT.
• This catalog is subject to change and may be incomplete. Please consult the addenda at westvalley.edu/catalog/
BIOI 050 HUMAN CADAVER DISSECTION
1 unit
Lecture 0 units; lab 1 unit
Prerequisite: BIOI 047
Acceptable for credit: University of California, California State University
This is a whole human cadaver dissection course. The course is designed for nursing, medical, physical therapy, physician assistant, chiropractic and other health related majors. The course uses a regional approach to cadaver dissection. Working in small groups, student have the opportunity to dissect cadavers while the instructor provides necessary guidance and information for accomplishing the dissection. Pass/No Pass Option

BIOI 055 BIOLOGY OF SEX
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
This course explores the natural history of sex and how it is fundamental to understanding the evolution and diversity of sexual reproductive strategies. Students have the opportunity to learn about the biology behind the fantatic strategies organisms use to mix their genes. Topics covered include the evolution of sex, sex differences, mating strategies, costs of reproduction, sexual conflict, sperm competition, sexual selection, promiscuity, and female choice.

BIOI 056 ECOLOGY OF THE SIERRA NEVADA
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
This course explores the natural history and ecology of the Sierra Nevada. This general education course includes an overview of the climate, evolutionary history, biogeography, community structure, natural history, and ecology of the plants, mammals, birds and insects of the Sierra Nevada range. Students also have the opportunity to gain an understanding of basic field techniques. This class is held in the field with required preliminary class meetings at West Valley College. Students are responsible for transportation and costs associated with travel, camping equipment, and related expenses.

BIOI 058 FIELD ECOLOGY
3 units
Lecture 2 units; lab 1 unit
Acceptable for credit: University of California, California State University
This course explores the ecology of plant and animal communities. Students have the opportunity to learn about field ecology in both the classroom and outdoor settings. Preliminary class meetings are followed by a field trip(s). Students must successfully complete class preparatory requirements in order to participate in the field trip(s). Students are responsible for transportation and costs associated with travel, meals, camping equipment, and related expenses.

BIOI 059 CLIMATE CHANGE
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
This non-major course is an introduction to the biology of climate change. Students have the opportunity to learn the basics of how climate change works with an overview of both natural and anthropogenic forces that drive climate patterns. This course reviews climate change data and the evidence of past and present climate patterns. Students have the opportunity to learn how evidence and models predict how climate change is impacting and will impact the environment, biodiversity and human society; and to learn about climate change policy and the future of climate change impacts by exploring mediation at the global, national, state, community and individual level.

Botany
(See Biology)

Cell Biology
(See Biology)
The Business Administration AS degree at West Valley College focuses on preparing students for a diverse range of careers in the business world. The curriculum is designed to provide students with the basic skills that all business professionals should have, including an understanding of the world of business, marketing, human relations, communication skills, modern office skills, and understanding how business is viewed from a sociocultural point of view.

The courses are designed for students who do not have previous experience in business. The required courses for this degree prepare students not only for transfer to a four-year university, but also for jobs in a general business office setting, or prepare students already in business for promotions at work.

The courses aim to develop skills in business analytics, team projects, critical thinking, modern office administration skills, and understanding organizational behavior and key behavioral dynamics of people at work.

Upon successful completion of the degree students should be able to enter the business world with a better understanding of the complexities of business and of the career options in business.

In addition, students should be able to demonstrate competency in understanding business and understanding how to be a successful employee within a modern business office and:

- Apply introductory business theories and concepts to researching and analyzing contemporary business issues.
- Research and write strategic business and marketing plans.
- Utilize mathematical skills to solve business math problems.
- Develop and prepare team based projects and professional business presentations.
- Demonstrate critical thinking skills for analyzing legal and business cases.

Potential careers specific to this degree include, but are not limited to: office manager, executive assistant, financial analyst, project management, human relations specialists, and marketing.

### BUSINESS ADMINISTRATION A.S. Degree

The Business Administration AS degree at West Valley College focuses on preparing students for a diverse range of careers in the business world. The curriculum is designed to provide students with the basic skills that all business professionals should have, including an understanding of the world of business, marketing, human relations, communication skills, modern office skills, and understanding how business is viewed from a sociocultural point of view.

The courses are designed for students who do not have previous experience in business. The required courses for this degree prepare students not only for transfer to a four-year university, but also for jobs in a general business office setting, or prepare students already in business for promotions at work.

The courses aim to develop skills in business analytics, team projects, critical thinking, modern office administration skills, and understanding organizational behavior and key behavioral dynamics of people at work.

Upon successful completion of the degree students should be able to enter the business world with a better understanding of the complexities of business and of the career options in business.

In addition, students should be able to demonstrate competency in understanding business and understanding how to be a successful employee within a modern business office and:

- Apply introductory business theories and concepts to researching and analyzing contemporary business issues.
- Research and write strategic business and marketing plans.
- Utilize mathematical skills to solve business math problems.
- Develop and prepare team based projects and professional business presentations.
- Demonstrate critical thinking skills for analyzing legal and business cases.

Potential careers specific to this degree include, but are not limited to: office manager, executive assistant, financial analyst, project management, human relations specialists, and marketing.

### Course ID | Title | Units
---|---|---
ACCT 011 | Managerial Accounting | 5
ECON 001A AND ECON 002A | Principles of Macroeconomics | 3
ECON 001AH AND ECON 002AH | Honors Principles of Macroeconomics | 3
ECON 001B AND ECON 002B | Principles of Microeconomics | 3
BUSN 028 | Business Law | 3

**List A:** Choose one course

MATH 012 | Applied Calculus | 4
MATH 010 OR MATH 010H | Elementary Statistics | 4
MATH 008 | Finite Mathematics | 3

**List B:** Choose two courses (may choose any course from list A not already used in addition to those listed below)

BUSN 051 | Introduction to Business | 3

**Total Major Units:** 31-32

**GE Units (CSU GE or IGETC):** 39 or 37

**Total Degree Units:** 60

For crosswalk of new subject codes, see page 61

**Recommended Sequence:**

**Fall, Year 1:** 8 units

ACCT 010, BUSN 028

**Spring, Year 1:** 9 units

ACCT 011, ECON 001A and 002A

**Fall, Year 2:** 7-8 units

ECON 001B and 002B, Any Course from List A

**Spring, Year 2:** 6-7 units

Any Courses from List B

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**ADVISORY** is a recommended preparation, NOT a REQUIREMENT.

*This catalog is subject to change and may be incomplete. Please consult the addenda at westvalley.edu/catalog/*
CERTIFICATES AWARDED UPON COMPLETION (More than one may be completed.)

Recommended Course Sequence:

**Example - Human Resources**

**Fall, Year 1 (9 Units):**
- BUSN 051, BUSN 062, BUSN 078

**Spring, Year 1 (9 Units):**
- BUSN 006, BUSN 024, BUSN 028

**Fall, Year 2 (9 Units):**
- BUSN 034, BUSN 066, BUSN 068

**Spring, Year 2 (8 Units):**
- ACCT 050, BUSN 070, CIST 002

**ENTREPRENEURSHIP Certificate of Achievement**

The Entrepreneurship Certificate of Achievement requires the successful completion of 5 required core courses (15 units) and 4 required courses with an entrepreneurship concentration (12 units). This program provides Career Technical Education opportunities in the areas of small business start-up and management, marketing, consumer behavior, and developing an entrepreneurial mindset. This certificate provides a specialized focus in creating a foundation for implementing product development and small business administration.

Upon completion of this program a student should be able to:
- Identify new offerings and business opportunities, analyze small business strategies, and evaluate rewards and risks of starting a new business venture.
- Demonstrate small business start-up skills specific to operating an enterprise that successfully competes in today’s ever-changing marketplace.

Upon successful completion of this certificate, career opportunities exist in entrepreneurship, small business marketing, and product design and production in the field of small business start-ups.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BUSN 028</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 062</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 078</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 051</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>OR BUSN 061</td>
<td>Business, Government, and Society</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 024</td>
<td>International Business Management</td>
<td>3</td>
</tr>
<tr>
<td>OR BUSN 036</td>
<td>Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 015</td>
<td>The Entrepreneurial Mindset</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 054</td>
<td>Small Business Start Up and Management</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 056</td>
<td>Marketing Principles</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 005</td>
<td>Introduction to Project Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Certificate Units: 27

For crosswalk of new subject codes, see page 61

**Recommended Course Sequence**

**Fall, Year 1 (15 Units):**
- BUSN 005, BUSN 015, BUSN 028, BUSN 054, BUSN 051 or 061

**Spring, Year 1 (12 Units):**
- BUSN 056, BUSN 062, BUSN 078, BUSN 024 or 036

**FINANCE/ACCOUNTING Certificate of Achievement**

The Finance/Accounting Certificate of Achievement requires the successful completion of the required core courses (15 units) plus 3 additional required courses with a finance/accounting concentration (12 units) for a total of 27 units.

This program provides Career Technical Education opportunities in the areas of finance, accounting, and bookkeeping for a small to medium size business. This certificate provides a specialized focus on learning accounting rules and standards, how to record the financial transactions of a business, financial statement preparation, and providing management financial information that enables management to plan for and control the business.

Emphasis is on learning Generally Accepted Accounting Principles, applying these principles to the recording of financial transactions and the preparation of financial statements, and providing management accurate and meaningful financial information that enables management to perform their function.

Upon completion of this program, a student should be able to:
- Demonstrate an understanding of the accounting cycle by identifying financial transactions for a business, recording those transactions in accordance with Generally Accepted Accounting Principles, and preparing end-of-period financial statements.
- Analyze the financial statements of the business, evaluate the financial health of the business, and communicate their overall assessment.

This certificate is designed for students who wish to pursue a career in bookkeeping, accounting, or auditing in a small to medium size business environment.

<table>
<thead>
<tr>
<th>Course ID</th>
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</thead>
<tbody>
<tr>
<td>BUSN 028</td>
<td>Business Law</td>
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<tr>
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<td>Business Mathematics</td>
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</tr>
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<td>BUSN 078</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 051</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>OR BUSN 061</td>
<td>Business, Government, and Society</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 024</td>
<td>International Business Management</td>
<td>3</td>
</tr>
<tr>
<td>OR BUSN 036</td>
<td>Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 010</td>
<td>Financial Accounting</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 060</td>
<td>Accounting Fundamentals Quickbooks</td>
<td>4</td>
</tr>
<tr>
<td>BUSN 046</td>
<td>Excelling With Excel</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Certificate Units: 27

For crosswalk of new subject codes, see page 61

**Recommended Course Sequence**

**Fall, Year 1, example courses (11 Units):**
- ACCT 010, BUSN 028, BUSN 061

**Spring, Year 1, example courses (16 Units):**
- ACCT 060, BUSN 024, BUSN 046, BUSN 062, BUSN 078

**HUMAN RESOURCES Certificate of Achievement**

The Human Resources Certificate of Achievement requires the successful completion of 5 required core courses (15 units) plus 4 required courses with a human resources concentration (12 units) for a total of 27 units.

This program provides Career Technical Education opportunities in the areas of human resource support and management for a small to medium size business. This certificate provides a specialized focus on the various aspects of the human resource discipline in a business including recruiting, compensation, benefits, and training.

Upon completion of this program a student should be able to:

**Course ID | Title                             | Units**
**---------|-----------------------------------|-------|
**BUSD 015 | The Entrepreneurial Mindset       | 3     |
**BUSD 054 | Small Business Start Up and Management | 3   |
**BUSD 056 | Marketing Principles              | 3     |
**BUSD 005 | Introduction to Project Management| 3     |
**BUSD 010 | Financial Accounting              | 5     |
**BUSD 060 | Accounting Fundamentals Quickbooks| 4     |
**BUSD 046 | Excelling With Excel              | 3     **
• Demonstrate an understanding of the Human Resources functions (recruiting, compensation, benefits, legal considerations).
• Demonstrate an understanding of the different employee motivational theories and how to apply them in specific situations.
• Demonstrate an understanding of the Human Resources role in a business.

This certificate is designed for students who wish to pursue a career as a human resource assistant in human resource departments in a small to medium size business environment.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>BUSN 028</td>
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<tr>
<td>BUSN 062</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 078</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 051 OR BUSN 061</td>
<td>Introduction to Business, Business, Government, and Society</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 024 OR BUSN 036</td>
<td>International Business Management, Strategic Management</td>
<td>3</td>
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</tbody>
</table>

Complete the following 4 courses: 12 units

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSN 034</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 066</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 068</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 006</td>
<td>Negotiation Principles</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Certificate Units 27

For crosswalk of new subject codes, see page 61

Recommended Course Sequence:

Fall, Year 1, example courses (15 Units):
BUSN 006, BUSN 034, BUSN 061, BUSN 066, BUSN 068

Spring, Year 1, example courses (12 Units):
BUSN 024, BUSN 028, BUSN 062, BUSN 078

**MARKETING**

Certificate of Achievement

The Marketing Certificate of Achievement requires the successful completion of 5 required core courses (15 units) and 5 required courses with a marketing concentration (13 units) for a total of 28 units.

Students who complete this certificate apply introductory basic theories and concepts in marketing to all of the various fields of advanced marketing, such as social media marketing, sales, and advertising. The classes that make up the certificate require students to demonstrate critical thinking skills for analyzing specific real and hypothetical marketing cases. Students also prepare, research, and write strategic business and marketing plans; additionally, the classes in the certificate require students to prepare and develop team projects and professional business demonstrations.

Upon completion of this certificate, students should be able to:
• Apply introductory business theories and concepts to researching and analyzing marketing strategies and plans.
• Research and write strategic business and marketing plans.

Students completing this certificate qualify for, but are not limited to, careers in social media marketing, traditional marketing, internet-based marketing strategies, market analysis, advertising, sales, business communications, and other areas in the fields of marketing, communications, and advertising.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BUSN 028</td>
<td>Business Law</td>
<td>3</td>
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</table>

Complete the required courses: 13 units

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSN 040</td>
<td>Sales Strategies</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 044</td>
<td>Presentation, Powerpoint</td>
<td>1</td>
</tr>
<tr>
<td>BUSN 056</td>
<td>Marketing Principles</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 081</td>
<td>Advertising Principles</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 006</td>
<td>Negotiation Principles</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Certificate Units 28

For crosswalk of new subject codes, see page 61

Recommended Course Sequence:

Fall, Year 1, example courses (16 Units):
BUSN 006, BUSN 024, BUSN 040, BUSN 044, BUSN 056, BUSN 081

Spring, Year 1, example courses (12 Units):
BUSN 028, BUSN 061, BUSN 062, BUSN 078

**NEW SMALL BUSINESS ESSENTIALS**

Certificate of Achievement

The Small Business Essentials Certificate of Achievement requires the successful completion of 8 required core courses (18 units). Students have the opportunity to develop skills that enable them to provide complete office management support skills in a small business environment, including accounting, use of Excel, PowerPoint, Microsoft Word documents, PDF files, G-Suite, and Office 365, proper office protocol, and professional and ethical communication.

After completing the certificate, students should be able to:
• Maintain the accounting records for a small business.
• Select and apply software applications to support a small business.
• Demonstrate the ability to communicate professionally and ethically in a small business environment.

Upon completing this certificate, students can qualify for small business jobs and careers as an administrative assistant, office manager, or clerical positions.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ACCT 050</td>
<td>Accounting for Small Business</td>
<td>1</td>
</tr>
<tr>
<td>BUSN 044</td>
<td>Presentation, Powerpoint</td>
<td>1</td>
</tr>
<tr>
<td>BUSN 046</td>
<td>Excelling With Excel</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 047</td>
<td>Adobe Acrobat and PDF</td>
<td>1</td>
</tr>
<tr>
<td>BUSN 062</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 070</td>
<td>Effective Office Skills</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 078</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 043 OR BUSN 043A</td>
<td>Sales Strategies, Introduction to G-Suite Cloud-based Software</td>
<td>3</td>
</tr>
</tbody>
</table>

Recommended Elective:

**ADVISORY is a recommended preparation, NOT a REQUIREMENT.**

• This catalog is subject to change and may be incomplete. Please consult the addenda at westvalley.edu/catalog/
BUSN 043B Office 365 & G-Suite Interoperability 1

Total Certificate Units 18
For crosswalk of new subject codes, see page 61

Recommended Course Sequence:

Fall, Year 1 (12 Units):
ACCT 050, BUSN 043 or 043A, BUSN 044, BUSN 046, BUSN 047, BUSN 070

Spring, Year 1 (6 Units):
BUSN 062, BUSN 078

BUSN 005 INTRODUCTION TO PROJECT MANAGEMENT
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
Students have the opportunity to manage a project’s scope from inception to completion in order to successfully organize, implement, and complete project assignments. MS Project software and case studies are used to clarify concepts such as: project scope, task scheduling, resource allocations, vendor relationships, and managing risk. The significant link between Project Management and achieving organizational goals and objectives is emphasized. Pass/No Pass Option

BUSN 006 NEGOTIATION PRINCIPLES
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
This class helps students plan for negotiating situations that arise in business environments. Students are introduced to the negotiating process through the study of written materials, classroom discussions, and role-playing. Emphasis is placed on understanding communication dynamics, defining goals, establishing tactics, assessing one’s bargaining power, and resolving disagreements and conflicts. Through one-on-one and group role-playing, students have hands-on experience gaining negotiating skills. This class also discusses ethical issues arising in negotiations and negotiating in a cross-cultural context. This class is one of the classes needed to obtain a Certificate in Project Management. Pass/No Pass Option

BUSN 015 THE ENTREPRENEURIAL MINDSET
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
This course reviews and analyzes social and business entrepreneurs throughout history and around the world. The personality traits and situational variables that facilitate the growth of an entrepreneurial mindset are explored. The motivations, contributions, and innovations of entrepreneurs are addressed in order to assist and empower students as they develop their own personal “entrepreneurial mindset” approaches for achieving their goals and aspirations. Pass/No Pass Option

BUSN 024 INTERNATIONAL BUSINESS MANAGEMENT
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
This course is an introduction to globalization and the cultural, economic, political, and legal environments of international business. This includes an overview of risks, challenges, and opportunities in the global marketplace. Pass/No Pass Option

BUSN 028 BUSINESS LAW
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
C-ID BUS 125
This course is an introduction to the law and its relevance to business in general. The course is about the meaning and sources of law in business, organization of courts and court procedures, and the fundamental principles of the law in various aspects of business, with a particular focus on contract law. A fundamental understanding of common law principles is achieved by analyzing selected cases, court decisions, and business transactions. Topics covered include sources of law and ethics, constitutional law, the court system, contracts, torts, agency, labor and employment, real property, product liability, criminal law, business organizations, and judicial and administrative processes. Pass/No Pass Option
BUSN 028H HONORS BUSINESS LAW
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
Honors Business Law uses the pedagogical methods common to all Honors courses: interdisciplinary, writing-intensive, collaborative, and experiential instruction. The course requires a higher level of critical legal analysis beyond the non-honors section. This course is an introduction to law relating to the conduct of business, the meaning and sources of law, organization of courts and court procedures, and fundamental principles of the law of contracts and agency. A fundamental understanding of common law principles is achieved by analyzing selected cases and court decisions, and business transactions. Topics covered include an introduction to the legal process, sources of law and ethics, contracts, torts, agency, criminal law, business organizations, and judicial and administrative processes. Pass/No Pass Option

BUSN 034 HUMAN RESOURCE MANAGEMENT
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
This course is an in-depth study of human resources management in public and private organizations. Specific areas of human resource management to be studied are: the principles and methods involved in recruitment, selection and placement of employees; affirmative action programs, training and development; performance appraisals; compensation and benefits; legal aspects of human resources administration; and government regulations and statutes. Pass/No Pass Option

BUSN 036 STRATEGIC MANAGEMENT
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
Strategic Management explores up-to-date, state-of-the-art planning concepts and techniques for achieving competitive advantage in today’s dynamic business environment. It includes strategy formation, implementation and evaluation processes with a special focus on globalization, the natural environment, start-up organizations and entrepreneurship. Pass/No Pass Option

BUSN 040 SALES STRATEGIES
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
This course includes the nature and concept of sales principles and strategies. This course covers careers in selling in various fields. This course examines how to prospect, qualify, and make an effective sales presentation. Students taking this class have the opportunity to learn how to succeed in sales regardless of their chosen field. Motivation of the customer, handling customer objections and complaints, closing the sale, and follow up procedures are explored in depth. Pass/No Pass Option

BUSN 042 BEGINNING MICROSOFT WORD DOCUMENTS
1 unit
Lecture 1 unit; lab 0 units
Acceptable for credit: California State University
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. Pass/No Pass Only

BUSN 043 MS OFFICE - BEGINNING OFFICE COMPUTING
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
This course introduces students to the Windows operating system. Students have the opportunity to learn basic Microsoft Word, Excel and PowerPoint. Pass/No Pass Option.

BUSN 043A INTRODUCTION TO G-SUITE CLOUD-BASED SOFTWARE
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
This course introduces students to the G-Suite cloud-based software, which includes Google Docs, Sheets, and Slides. Students have the opportunity to learn the basic functionality of each. Pass/No Pass Option

BUSN 043B OFFICE 365 & G-SUITE INTEROPERABILITY
1 unit
Lecture 1 unit; lab 0 units
Prerequisite: BUSN 043 or BUSN 043A
Acceptable for credit: California State University
This course introduces students to the methods of importing and exporting files between G-Suite cloud-based software (Google Docs, Sheets, and Slides) and Microsoft Office 365 (MS Word, Excel, and PowerPoint). Pass/No Pass Option

BUSN 044 PRESENTATION, POWERPOINT
1 unit
Lecture 1 unit; lab 0 units
Acceptable for credit: California State University
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. Pass/No Pass Only

BUSN 046 EXCELLENT WITH EXCEL
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
This course provides students with the opportunity to learn the capabilities of a spreadsheet program. Students create spreadsheet formats, enter text data and formula expressions by storing, retrieving, copying and printing spreadsheets. Creating graphic representations of data is covered also, and students are introduced to macro capabilities. Pass/No Pass Option

BUSN 046B BEGINNING SPREADSHEETS: MICROSOFT EXCEL
1 unit
Lecture 1 unit; lab 0 units
Acceptable for credit: California State University
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. Pass/No Pass Only

BUSN 047 ADOBE ACRBATOR AND PDF
1 unit
Lecture 1 unit; lab 0 units
Acceptable for credit: California State University
This course focuses on using Adobe Acrobat to convert Microsoft documents to the PDF format. Also, the course covers enhancing PDF files with bookmarks, thumbnails, and links. Converting digital forms and web documents to PDF format is covered also. Pass/No Pass Only

BUSN 051 INTRODUCTION TO BUSINESS
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
This course provides the student an introduction to American business in the global environment, providing an overview of economics, ethics, management, marketing, operations, information management, accounting, and finance.
BUSN 054 SMALL BUSINESS START UP AND MANAGEMENT
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
This introductory course focuses on the kind of businesses most people start – small businesses in traditional markets. The course covers entrepreneurial competencies, environmental scanning, building legitimacy, developing a social network, women and minorities in small business, screening business ideas, identifying opportunities through creativity, cultivating an innovative frame of mind, small business strategies, marketing plans, managing cash flow, small business finance, inventory and operations management, human resource management and rewards and risks of starting a small business. Pass/No Pass Option

BUSN 056 MARKETING PRINCIPLES
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
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. Pass/No Pass Option

BUSN 061 BUSINESS, GOVERNMENT, AND SOCIETY
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
This class offers students an opportunity to learn about the mutually interdependent nature of business, government, and society. The class focuses on how business affects society and vice-versa. Topics covered in this class include business ethics, government regulation, the global environment of business, and the societal challenges and benefits of business activity. Pass/No Pass Option

BUSN 062 BUSINESS MATHEMATICS
3 units
Lecture 3 units; lab 0 units
Prerequisite: MATH 903 or MATH 903R or LRSV 945
Acceptable for credit: California State University
In this course, students have the opportunity to apply mathematical principles used in accounting, banking, insurance, finance, buying, selling, and real estate. Applied mathematics is emphasized through the study of world problems, time value of money, simple and compound interest, and analysis of financial statements. Pass/No Pass Option

BUSN 066 HUMAN RELATIONS IN BUSINESS
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
This course is the study of human relations behavior in business organizations. Emphasis is on personal/interpersonal relationships; developing leadership for business success; maximizing human potential to meet present and future challenges by developing teamwork, building commitment, and applying traditional human relations theories to today's society. Pass/No Pass Option

BUSN 068 ORGANIZATIONAL BEHAVIOR
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
Organizational Behavior is a comprehensive, reality-based course that investigates and illustrates behavior patterns in organizations. Emphasis is on globalization, diversity and ethics using current, real world examples. It includes three levels of analysis—the individual, the group, and the organization system, and provides skill-building opportunities that demonstrate the linkage between organizational behavior theory and skill application. Pass/No Pass Option

BUSN 070 EFFECTIVE OFFICE SKILLS
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
This course provides comprehensive coverage and integration of business skills and issues. It is designed to help develop decision making skills, and establish a foundation in business procedures. Study of the electronic office, technology and procedures, document creation and distribution, research and organization of business reports, travel and conference planning, financial and legal procedures, and employment and career advancement is included. Pass/No Pass Option

BUSN 078 BUSINESS COMMUNICATION
3 units
Lecture 3 units; lab 0 units
Prerequisite: ENGL 001A
Acceptable for credit: California State University
C-ID BUS 115
This course applies the principles of ethical and effective communication to the creation of letters, memos, emails, and written and oral reports for a variety of business situations. This course emphasizes planning, organizing, composing and revising documents using word processing software for written documents and presentation-graphics software to create and deliver professional-level oral reports. This course is designed for students who already have college-level writing skills. Pass/No Pass Option

BUSN 081 ADVERTISING PRINCIPLES
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
The course is an introduction to the basic principles and techniques of advertising as applied to business and to media. Advertising campaigns and their effectiveness are covered. Pass/No Pass Option

Real Estate

Learning Outcomes:
After completing courses in Real Estate, a student will be able to:
- Identify and evaluate the legal issues affecting real estate practices;
- Analyze and solve real estate finance and economics problems;
- Apply real estate appraisal principles and procedures.

FOR CALIFORNIA STATE REAL ESTATE SALESPERSON LICENSE
West Valley College offers all of the required courses that a student needs to take in order to obtain a Salesperson's license. The California Department of Real Estate requires that an individual take three real estate-oriented classes and pass the state Real Estate Salesperson exam before obtaining a renewable Real Estate Salesperson’s license. A Salesperson’s license is necessary in California for a person to be able to buy or sell real estate on another’s behalf. In order to qualify to take the Real Estate Salesperson exam, an individual must take the following classes:

Requirements:
Course | Units
--- | ---
BUSN 028 Business Law | 3
RLST 092 Real Estate Economics | 3
RLST 093A Legal Aspects of Real Estate | 3
RLST 094C Real Estate Appraisal Principles & Procedures | 3
RLST 095A Real Estate Finance | 3
RLST 096A Real Estate Investment I | 3
RLST 099 Property Management | 3

For more information, please refer to the specific prerequisites and corequisites listed in page 5.
RLST 090 PRINCIPLES OF REAL ESTATE
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
This is a required course to obtain a Real Estate Salesperson license. This course summarizes information required for the State of California Real Estate Salesperson’s license examination. This course covers the basic background and terminology necessary for advanced study in other real estate courses. This course is intended to acquaint students with little or no training or experience in real estate with the real estate industry. This course also applies toward the educational requirements for the California Real Estate Broker’s license examination. Pass/No Pass Option

RLST 091 REAL ESTATE PRACTICE
3 units
Lecture 3 units; lab 0 units
Advisory: RLST 090
Acceptable for credit: California State University
Real Estate Practice is an overview of the operational methods of a real estate business and the procedures used in a typical real estate transaction. The course covers the day-to-day operations of a real estate office, with an emphasis on topics such as listings, purchase and sale agreements, advertising, financing, escrows, taxation, and appraisal. This course summarizes information required for the State of California real estate license examinations. This course is required for a Real Estate Salesperson’s license and for a Real Estate Broker’s license. Pass/No Pass Option

RLST 092 REAL ESTATE ECONOMICS
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
This course provides students with the opportunity to analyze the causes and effects of value fluctuations in real estate, the nature of land development, socioeconomic factors, and what is considered a good or bad real estate investment. Students distinguish between general and specific governmental controls affecting real estate activity and analyze the effect of local, state and federal taxes on real estate activity. Students apply basic economic principles to understand how land values are influenced by multiple factors. This course applies toward the educational requirements of the California real estate broker’s and the California real estate salesperson’s license examination. Pass/No Pass Option

RLST 093A LEGAL ASPECTS OF REAL ESTATE I
3 units
Lecture 3 units; lab 0 units
Advisory: RLST 090
Acceptable for credit: California State University
This is a fundamental real estate law course covering the basic understanding, background, and terminology necessary for advanced study in specialized real estate courses. This course is designed for students with little or no training or experience in real estate law. The purpose of the course is to introduce students to legal issues that arise in real estate and to enable students to identify, interpret, and solve fundamental legal problems inherent in real estate transactions and in the real estate profession. This course summarizes information required for the State of California real estate license examinations. This course also applies toward the educational requirements for a California Real Estate Broker’s license, and can also be applied as an elective for the Real Estate Salesperson’s license requirements. Pass/ No Pass Option

RLST 094C REAL ESTATE APPRAISAL PRINCIPLES AND PROCEDURES
3 units
Lecture 3 units; lab 0 units
Advisory: RLST 090
Acceptable for credit: California State University
This introductory real estate appraisal course meets both California Office of Real Estate Appraisers (OREA) and California Bureau of Real Estate (BRE) educational requirements. This course satisfies the OREA Basic Appraisal Principles requirement with 30 hours of principles and 15 hours of procedures instruction. This course also applies to the educational requirements for the California BRE real estate broker’s and real estate salesperson’s license. With a focus on single-family residential property, students have an opportunity to learn the basic appraisal principles and influences in real estate valuation. Students also have an opportunity to learn the skills for gathering information to form an opinion based on reasoned judgment of the value of real estate. Pass/No Pass Option

RLST 095A REAL ESTATE FINANCE
3 units
Lecture 3 units; lab 0 units
Advisory: RLST 090
This course analyzes real estate financing, including financing for residential and commercial properties, and development opportunities. Other topics include secured transactions, investment vehicles, government financing options, interest rates, taxation considerations, and evaluation of loan applicants. This course covers content required for the State of California real estate license examinations. It applies toward the educational requirements for a California Real Estate Broker’s license and as an elective for the Real Estate Salesperson’s license requirements. Pass/No Pass Option
RLST 096A REAL ESTATE INVESTMENT I
3 units
Lecture 3 units; lab 0 units
Advisory: RLST 090
Acceptable for credit: California State University
This course is designed to acquaint the real estate student with the specific advantages and disadvantages of the various types of real estate investments including multifamily, commercial, industrial, professional, recreational, condominiums and special purpose properties. This class addresses the effects of inflation, depreciation, taxes, tax-deferred exchanges, real estate cycles, growth patterns, risk and liquidity on the total real estate investment. Students also study the advantages and disadvantages of investments in related fields of real estate investments including syndications, limited partnerships, the use of leverage, and creative financing such as all inclusive deeds of trusts in maximizing the real estate investment returns. This course applies toward the educational requirements of the California Real Estate Broker’s License examination and can also be applied as an elective for the Real Estate Salesperson License requirements. Pass/No Pass Option

RLST 099 PROPERTY MANAGEMENT
3 units
Lecture 3 units; lab 0 units
Advisory: RLST 090
Acceptable for credit: California State University
This course covers the successful techniques and practices in the management of income property including acquisition, analysis, legal considerations, marketing techniques, maintenance, records and insurance. This course summarizes information required for the State of California real estate license examinations; however, considerable outside study for the state exam may be required. This course also applies towards the educational requirements of the California Real Estate Broker’s license examination and can also be applied as an elective for the Real Estate Salesperson license requirements. Pass/No Pass Option

Chemistry

THE FACULTY
Glenn Eldridge
Blaine Harrison
Terry Ng

DIVISION Science and Math
DEAN Laura Hyatt
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COUNSELING 408-741-2009

The Chemistry Program at West Valley College consist of:
• A series of chemistry courses designed to meet transfer requirements for physical and biological science majors.
• A series of courses designed for students majoring in fields other than chemistry, biology or physical science.
• A course designed specifically for students who require preparation or review of the more basic chemical concepts. All chemistry courses at West Valley College (with the exception of CHEM 050) include a practical component where students conduct hands-on chemical experiments in a modern, well-equipped laboratory.

Highlights:
• An outstanding chemistry faculty striving to maintain a competitive and well respected chemistry program.
• Ready availability of instructors to students both inside the classrooms and laboratories, as well as during office hours.

Career Options:
• Allied Health Sciences
• Biology/Biochemistry
• Chemistry
• Dentistry
• Engineering
• Geochemistry/Geology
• Oceanography
• Medicine
• Pharmacy
• Physics
• Veterinary Medicine

Career options may require more than two years of college study.

CHEMISTRY: For transfer information see assist.org and/or consult with a counselor.

CHEM 001A GENERAL CHEMISTRY
5 units
Lecture 4 units; lab 1 unit
Prerequisite: MATH 106 or MATH 106R, and CHEM 002 or 1 year high school chemistry
Acceptable for credit: University of California, California State University
C-ID CHEM 110, C-ID CHEM 120S
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.
CHEM 001B GENERAL CHEMISTRY
5 units
Lecture 4 units; lab 1 unit
Prerequisite: CHEM 001A
Acceptable for credit: University of California, California State University
This course is a continuation of Chem 001A. The units of study will include solution equilibria, electrochemistry, thermodynamics, coordination compounds, and kinetics. The laboratory consists of data-driven analyses of chemical principals and techniques, including the synthesis of a variety of compounds.

CHEM 002 INTRODUCTORY CHEMISTRY
4 units
Lecture 3 units; lab 1 unit
Prerequisite: MATH 106 or 106R
Acceptable for credit: University of California, California State University
This course is an introduction to the fundamental principles of chemistry and includes atomic theory, chemical bonding, molecular structure, chemical reactions, stoichiometry, gas laws, liquids and solids, acids and bases, equilibrium, energy, and solution chemistry. The course stresses problem solving and is designed specifically to prepare the student for Chemistry 001A.

CHEM 012A ORGANIC CHEMISTRY
5 units
Lecture 3 units; lab 2 units
Prerequisite: CHEM 001B
Acceptable for credit: University of California, California State University
This course focuses on the fundamentals of organic chemistry with emphasis on underlying concepts. Modern laboratory techniques, including instrumental methods. Recommended for chemistry majors, chemical engineering majors, most biology majors, and for pharmacy, pre-medical and pre-dental students.

CHEM 012B ORGANIC CHEMISTRY
5 units
Lecture 3 units; lab 2 units
Prerequisite: CHEM 012A
Acceptable for credit: University of California, California State University
This is a continuation of Chemistry 12A. Chemistry 12B covers the fundamentals of organic chemistry with emphasis on families of organic compounds and the unique reactions they undergo; synthesis; reaction mechanisms; molecular structure and properties; modern laboratory techniques; and instrumental methods of structure determination. It is recommended for chemistry majors, chemical engineering majors, most biology majors, and for pre-medical and pre-dental students.
CHEM 025 LABORATORY TECHNICIAN METHODS
2 units
Lecture 1 unit; lab 1 unit
Prerequisites: BIOL 043 or BIOL 045
Acceptable for credit: California State University
This course covers basic concepts and common methods used by biotechnology and chemistry lab technicians, including making solutions and media, and use of pH meters, autoclaves, sterile and fume hoods, micropipettes, and microscopes. Important practices such as aseptic and sterile technique, lab safety and proper waste disposal are also discussed and demonstrated.

CHEM 030A FUNDAMENTALS OF CHEMISTRY
4 units
Lecture 3 units; lab 1 unit
Prerequisite: MATH 106 or MATH 106R
Acceptable for credit: University of California, California State University
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.

CHEM 030B FUNDAMENTALS OF CHEMISTRY
3 units
Lecture 2 units; lab 1 unit
Prerequisite: CHEM 030A or CHEM 002
Acceptable for credit: University of California, California State University
This course is a continuation of Chemistry 30A with emphasis in fields of organic and introductory biochemistry. Topics include an introduction to organic chemistry, DNA, RNA, important biological molecules and metabolic pathways.

CHEM 050 CHEMICAL SKILLS
1 unit
Lecture 0 units; lab 1 unit
This course is designed to strengthen the basic skills required in Chem 001A. Topics covered include chemical problem solving with the following concepts: atomic structure and electron configurations, dimensional analysis, chemical formulas, chemical equations, stoichiometric calculations, solutions, gas laws, calorimetry, molecular geometry, oxidation-reduction, net ionic equations, intermolecular forces, equilibrium. Pass/No Pass Option

CHEM 161 WATER TREATMENT II
3 units
Lecture 3 units; lab 0 unit
Advisory: CHEM 002, ENGR 010 and PHYS 001
Acceptable for credit: California State University
This course covers water resources, water quality, unit operations of advanced water treatment systems, public health, water chemistry microbiology, and fluoridation. It is designed to prepare students for T2 Water Treatment Operator’s Certificate examinations required by the California Department of Public Health.

Child Studies

THE FACULTY
Laurie Dotson
Leslie Hotta
Katherine Moore-Wines

DEPARTMENT CHAIR
Leslie Hotta

PHONE
408-741-4603

EMAIL
leslie.hotta@westvalley.edu

COUNSELING
408-741-4068

Degrees:
A.A.-T, Child and Adolescent Development
A.S.-T, Early Childhood Education
A.S., Early Childhood Education
A.A.-T, Elementary Teacher Education

Certificates:
Early Childhood Program Director
Early Childhood Teacher Level 1
Early Childhood Teacher Level 2

CHILD DEVELOPMENT/EARLY CHILDHOOD EDUCATION: For transfer information see assist.org and/or consult with a counselor.

CHILD STUDIES
Three certificates and four degrees (ECE AS degree, AS-T ECE, AA-T Child and Adolescent Development and AA-T Elementary Teacher Education) are designed to prepare students to work in a variety of early childhood and elementary school settings and satisfy the early childhood education coursework required by the Department of Social Services Community Care Licensing Title 22 and the State Department of Education Title 5 regulations.

ASSOCIATE IN ARTS IN CHILD AND ADOLESCENT DEVELOPMENT FOR TRANSFER DEGREE (AA-T in Child and Adolescent Development)
The Associate in Arts in Child and Adolescent Development for Transfer degree (AA-T in Child and Adolescent Development) is a 60 unit program which provides students the lower division coursework required for transfer to a CSU Institution for the major in Child and Adolescent Development for the goal of teaching in the elementary schools of California or entering advanced careers with children and families.

Students who complete the Associate in Arts in Child and Adolescent Development for Transfer degree (AA-T in Child and Adolescent Development) will be able to:
• integrate the developmental theories of child development into the implementation of teaching practices and curriculum and demonstrate a broad understanding of biological, social, cognitive, and cultural factors influencing children’s development and learning.

Students must complete the following requirements:
• 60 semester or 90 quarter CSU-transferable units;
• the California State University-General Education-Breadth pattern (CSU GE-Breadth);
• OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern;
• a minimum of 8 semester or 24 quarter units in the major or area of emphasis as determined by the community college district;
• obtain a minimum grade point average (GPA) of 2.0;
• earn a grade of C or better in all courses required for the major or area of emphasis.

• PREREQUISITES AND COREQUISITES are MANDATORY. See page 5 for specific information.
• Courses used to meet prerequisite requirements must have been completed with a grade of C or Pass or better.
## Required Core (10 units)

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHST 002</td>
<td>Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 001</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 001H</td>
<td>Honors General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 010</td>
<td>Elementary Statistics</td>
<td>4</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 010H</td>
<td>Honors Elementary Statistics</td>
<td>4</td>
</tr>
</tbody>
</table>

## Required Core Courses: 24 units

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHST 001</td>
<td>Principles &amp; Practices of Teaching Young Children</td>
<td>3</td>
</tr>
<tr>
<td>CHST 005</td>
<td>Diversity - Childhood &amp; Culture</td>
<td>3</td>
</tr>
<tr>
<td>CHST 035</td>
<td>Practicum in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>CHST 053</td>
<td>Contemporary Education in a Changing Society</td>
<td>3</td>
</tr>
<tr>
<td>CHST 066</td>
<td>Child Safety, Health and Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>CHST 070</td>
<td>Infant-Toddler Development &amp; Care</td>
<td>3</td>
</tr>
<tr>
<td>CHST 080</td>
<td>Introduction to Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>CHST 087</td>
<td>Observation and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>COMM 001</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>COMM 004</td>
<td>Small Group Discussion</td>
<td>3</td>
</tr>
<tr>
<td>HIST 017A</td>
<td>United States History</td>
<td>3</td>
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<tr>
<td>HIST 017B</td>
<td>United States History</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
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<tr>
<td>HIST 017BH</td>
<td>Honors United States History</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 008</td>
<td>Contemporary Health</td>
<td>3</td>
</tr>
<tr>
<td>MATH 014</td>
<td>Math for Elementary School Teachers (number Systems)</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 015</td>
<td>Human Nutrition</td>
<td>3</td>
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## List A: Select 3 courses (9-15 units)

<table>
<thead>
<tr>
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<th>Title</th>
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<tbody>
<tr>
<td>ANTH 003</td>
<td>Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTH 003H</td>
<td>Honors Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 001</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 020</td>
<td>Sociology of Race and Ethnicity</td>
<td>3</td>
</tr>
<tr>
<td>CHST 063</td>
<td>Child, Family, and Community</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 040</td>
<td>Marriage and Family Sociology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 012</td>
<td>Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 010</td>
<td>Introduction to Biology</td>
<td>3</td>
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<tr>
<td>AND</td>
<td></td>
<td></td>
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<tr>
<td>BIOL 010L</td>
<td>Introduction to Biology Lab</td>
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<tr>
<td>BIOL 011</td>
<td>Human Biology</td>
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<tr>
<td>BIOL 022</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 023</td>
<td>Introduction to Infectious Diseases</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 024</td>
<td>Bio in the News</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 045</td>
<td>Microbiology</td>
<td>5</td>
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<tr>
<td>BIOL 047</td>
<td>Human Anatomy</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 048</td>
<td>Human Physiology</td>
<td>5</td>
</tr>
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**OR select maximum of 2 courses (3 - 6 units) any course not listed above**

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</tr>
<tr>
<td>COMM 004</td>
<td>Small Group Discussion</td>
<td>3</td>
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<tr>
<td>HIST 017A</td>
<td>United States History</td>
<td>3</td>
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<tr>
<td>HIST 017B</td>
<td>United States History</td>
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<tr>
<td>OR</td>
<td></td>
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<tr>
<td>HIST 017BH</td>
<td>Honors United States History</td>
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<tr>
<td>HSCI 008</td>
<td>Contemporary Health</td>
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<tr>
<td>MATH 014</td>
<td>Math for Elementary School Teachers (number Systems)</td>
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<tr>
<td>NUTR 015</td>
<td>Human Nutrition</td>
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## Total Major Units: 19-25

## GE Units (CSU GE or IGETC):

<table>
<thead>
<tr>
<th>Units</th>
<th>39 or 37</th>
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</table>

## Total Degree Units:

<table>
<thead>
<tr>
<th>Units</th>
<th>60</th>
</tr>
</thead>
</table>

For crosswalk of new subject codes, see page 61

### Recommended Sequence:

**Fall, Year 1 (example): 13 units**

CHST 002, CHST 063, MATH 010, PSYC 001

**Spring, Year 1 (example): 6 units**

CHST 001, CHST 005

## Associate in Science in Early Childhood Education for Transfer Degree (AS-T in Early Childhood Education)

The Associate in Science in Early Childhood Education for Transfer degree (AS-T in Early Childhood Education) is a 60-unit program which provides students the lower division coursework required for transfer to a CSU institution for the major in Child Development. Students completing the BA/BS in Child Development will be prepared to enter the fields of education, social welfare, parent education, child advocacy, counseling, and public health.

Students who complete the Associate in Science in Early Childhood Education for Transfer degree (AS-T in Early Childhood Education) will be able to:

- apply ethical guidelines and advocacy skills to maintain standards of high quality care and education for young children.

Students must complete the following requirements:

- 60 semester or 90 quarter CSU-transferable units
- the California State University-General Education-Breadth pattern (CSU GE-Breadth), OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.
- a minimum of 18 semester or 27 quarter units in the major or area of emphasis as determined by the community college district.
- obtainment of a minimum grade point average (GPA) of 2.0.
- earn a grade of C or better in all courses required for the major or area of emphasis.

Students are not required to complete the information competency requirements, PE requirements or cultural diversity requirements found in other degrees at the College.

After completing an A.S.-T in Early Childhood Education, a student will be able to:

- integrate an understanding of the needs, characteristics, and multiple influences on the development of children birth to age eight as it is related to high quality care and education of young children.
- design, implement, and evaluate environments and activities that support positive, developmental play and learning outcomes for all young children.
- develop strategies that promote partnerships between programs, teachers, families, and their communities.
- demonstrate ethical standards and professional behaviors that deepen understanding, knowledge and commitment to the Early Childhood profession.

### Course ID | Title                              | Units |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CHST 001</td>
<td>Principles &amp; Practices of Teaching Young Children</td>
<td>3</td>
</tr>
<tr>
<td>CHST 002</td>
<td>Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>CHST 005</td>
<td>Diversity - Childhood &amp; Culture</td>
<td>3</td>
</tr>
<tr>
<td>CHST 035</td>
<td>Practicum in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>CHST 063</td>
<td>Child, Family, and Community</td>
<td>3</td>
</tr>
<tr>
<td>CHST 066</td>
<td>Child Safety, Health and Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>
ASSOCIATE IN ARTS IN ELEMENTARY TEACHER EDUCATION FOR TRANSFER DEGREE (AA-T in Elementary Teacher Education)

The Associate in Arts in Elementary Teacher Education for Transfer degree (AA-T in Elementary Teacher Education) is a 60 unit program which provides students the lower division coursework required for transfer to a CSU institution for the major in Elementary Teacher Education for the goal of becoming an elementary school teacher.

Students who complete the Associate in Arts in Elementary Teacher Education for Transfer degree (AA-T in Elementary Teacher Education) will be able to:

- Demonstrate professional skills with children, families, and colleagues in the elementary school setting;
- Utilize child development theories to design developmentally appropriate curriculum for school-age children.

Students must complete the following requirements:

- 60 unit or 90 quarter CSU-transferable units;
- the California State University-General Education-Breadth pattern (CSU GE-Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern;
- a minimum of 18 semester or 27 quarter units in the major or area of emphasis as determined by the community college district;
- obtaining a minimum grade point average (GPA) of 2.0;
- earn a grade of C or better in all courses required for the major or area of emphasis.

Recommended Course Sequence:

Fall, Year 1 (9 Units):
- CHST 001, CHST 002, CHST 063
- BIOL 010 AND 010L, CHST 002, ELED 020 AND 020A

Spring, Year 1 (9 Units):
- CHST 005, CHST 006, CHST 080
- CHST 087

Fall, Year 2 (6 Units):
- CHST 088

Spring, Year 2:
- COMM 001, ENGL 001A, GEOG 006, Any Course from List B

List A: Select one course (3 units)
- ENGL 001C
- ENGL 001CH
- ENGL 001CH
- PHIL 003
- PHIL 017

List B: Select one course (3 units)
- ARTS 004
- ARTS 004
- MUSC 010
- THEA 010
- ARTS 001A

Total Degree Units:
- 60

George P. Lemaire and the Western States Conference of Teachers

EARLY CHILDHOOD EDUCATION A.S. Degree

Early Childhood Education is a vital component to our local, state, and national system of care and education for young children and offers many exciting career opportunities. The Associate in Science in Early Childhood Education is designed to prepare students to qualify for a variety of permits issued by the Teacher Credentialing, State of California. These permits include a Master Teacher, Site Supervisor, and Program Director permit. Receiving an A.S. in Early Childhood Education also meets the requirement to teach in a National Head Start Program. Possible career options are: Assistant Teacher, Teacher, Master Teacher, Site Supervisor, Parent Educator, Program Director, and Early Intervention Assistant.

After completing an Early Childhood Education A.S. Degree, a student will be able to:

- Design, implement, and evaluate environments and activities that support positive, developmental play and learning outcomes for all young children;
- Develop strategies that promote partnerships between programs, teachers, families, and their communities;
- Demonstrate ethical standards and professional behaviors that deepen understanding, knowledge, and commitment to the early childhood profession.

PREREQUISITES AND COREQUISITES are MANDATORY. See page 5 for specific information.

Courses used to meet prerequisite requirements must have been completed with a grade of C or Pass or better.
• Integrate an understanding of the needs, characteristics, and multiple influences on the development of children birth to age eight as it is related to high quality care and education of young children.

**EARLY CHILDHOOD PROGRAM DIRECTOR Certificate of Achievement**

The Early Childhood Program Director Certificate of Achievement requires the successful completion of 12 units of required core courses.

This program provides Career Technical Education opportunities in the supervision and administration of early childhood programs. These programs may be infant, toddler, preschool, pre-K, or school-age centers. The required coursework for the certificate emphasizes the supervision and professional development of teaching staff, the accounting and fiscal health of the operating budget, the marketing of the program, the coordination of program curriculum, and the development of a system to meet the current regulations of Title 22 Community Care Licensing, Title 5 California Department of Education and/or NAEYC accreditation (National Association for the Education of Young Children). In addition, knowledge of children with special needs and inclusive practices inform EC administrators about best program policies and procedures.

Upon completion of this program a student will be able to:

• Oversee and supervise a licensed early childhood program operated as a single or multiple-site according to current Title 22 or Title 5 regulations, and/or NAEYC accreditation standards.

This program provides the student with the course work required by the State of California Department of Social Services and the Department of Education Child Development Permit which enables the student to be employed as an administrator in a state-funded program, or public or private setting.

Students completing the certificate have demonstrated skills to fulfill the responsibilities of an administrator of an early childhood program which includes setting up and maintaining a healthy budget and keeping track of operating costs, planning for and facilitating professional staff development, interviewing and hiring teaching staff, conducting employee teacher evaluations, facilitating the problem resolution process involving teaching staff, children, and families, and maintaining currency with Title 22 and 5 regulations.

Examples of employers include:

• before/after school-age care
• infant programs
• toddler programs
• preschool programs
• pre-kindergarten
• transitional kindergarten
• kindergarten

This certificate satisfies California Department of Education Title 5 coursework requirements for the Child Development Program Director and Site Supervisor Permit.

It also satisfies the Department of Social Services Title 22 Community Care Licensing requirements for qualified directors in a licensed early childhood program.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CHST 064</td>
<td>Supervision and Administration I</td>
<td>3</td>
</tr>
<tr>
<td>CHST 065</td>
<td>Supervision and Administration II</td>
<td>3</td>
</tr>
<tr>
<td>CHST 085</td>
<td>Adult Supervision in Early Childhood Programs</td>
<td>3</td>
</tr>
<tr>
<td>CHST 034A</td>
<td>Introduction to the Child With Special Needs</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Certificate Units:** 12

For crosswalk of new subject codes, see page 61

Recommended Course Sequence:

**Fall, Year 1 (6 Units):**
CHST 001, CHST 002, CHST 063

**Spring, Year 1 (6 Units):**
CHST 066, CHST 087

**Fall, Year 2 (12 Units):**
CHST 005, CHST 080, 6 Units from Electives List

**Spring, Year 2 (11 Units):**
CHST 035, WRPX 303, 6 Units from Electives List

* ADVISORY is a recommended preparation, NOT a REQUIREMENT.
* This catalog is subject to change and may be incomplete. Please consult the addenda at westvalley.edu/catalog/
## EARLY CHILDHOOD TEACHER LEVEL 1  
**Certificate of Achievement**

This certificate requires the successful completion of 6 required core courses and 3 units of electives for a total of 21 units.

This certificate satisfies the Department of Social Services Title 22 Community Care Licensing requirements for qualified infant-toddler and pre-school teachers, and before and after school age caregivers in a licensed early childhood program.

It also satisfies the California Department of Education Title 5 child development coursework requirements for the Child Development Assistant or Associate Teacher permit.

After completing the Early Childhood Teacher Level 1 Certificate of Achievement, students will be able to:

- Provide and support service in the care, development, and instruction of children in a child care and development program.
- Establish and maintain collaborative partnerships with children, families, colleagues, and the community.
- Apply for and receive an Associate Teacher permit from the California Department of Education Child Development Teacher Permit Matrix.

Possible career options are infant-toddler assistant or caregiver, assistant teacher or aide, teacher, early intervention assistant, family care provider, and before and after school-age caregiver.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHST 001</td>
<td>Principles &amp; Practices of Teaching Young Children</td>
<td>3</td>
</tr>
<tr>
<td>CHST 002</td>
<td>Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>CHST 034A</td>
<td>Introduction to the Child With Special Needs</td>
<td>3</td>
</tr>
<tr>
<td>CHST 063</td>
<td>Child, Family, and Community</td>
<td>3</td>
</tr>
<tr>
<td>CHST 066</td>
<td>Child Safety, Health and Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following options

- CHST 070 Infant-Toddler Development & Care | 3

**OR**

- ELED 020 Introduction to Elementary Teaching | 2
- ELED 020A Field Experience in Elementary Teaching | 1

Choose 3 units from the following electives

- CHST 058 Language and Literacy Development | 3
- CHST 059 Music and Movement for Young Children | 3
- CHST 060 Children’s Ways of Thinking and Knowing | 3
- CHST 067 Creative Art Experiences and Development | 3

**Total Certificate Units**: 21

For crosswalk of new subject codes, see page 61

**Recommended Course Sequence:**

- **Fall, Year 1 (12 Units):**
  - CHST 001
  - CHST 002
  - CHST 063
  - CHST 066

- **Spring, Year 1 (9 Units):**
  - CHST 034A
  - CHST 058
  - CHST 070

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## EARLY CHILDHOOD TEACHER LEVEL 2  
**Certificate of Achievement**

This certificate is intended to follow successful completion of the Early Childhood Teacher Level 1 certificate, including prerequisite courses CHST 001, 002 and 063.

This certificate requires the successful completion of 6 required core courses and 6 units of electives for a total of 21 units.

This certificate satisfies California Department of Education Title 5 child development coursework requirements for the Child Development Teacher permit.

After completing the Early Childhood Teacher Level 2 Certificate of Achievement, students will be able to:

- Design developmentally appropriate curriculum and environments using child development theory, observations of children, and health and safety standards.
- Establish and maintain collaborative partnerships with children, families, colleagues, and the community.
- Apply ethical guidelines and advocacy skills to maintain standards of high quality care and education of young children.
- Apply for and receive a Teacher permit from the California Department of Education Child Development Teacher Permit Matrix.

Possible career options are infant-toddler teacher, preschool teacher, pre-K teacher, and before and after school-age teacher.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>WRKX 303</td>
<td>Occupational Work Experience</td>
<td>2</td>
</tr>
<tr>
<td>CHST 005</td>
<td>Diversity - Childhood &amp; Culture</td>
<td>3</td>
</tr>
<tr>
<td>CHST 035</td>
<td>Practicum in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>CHST 080</td>
<td>Introduction to Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>CHST 087</td>
<td>Observation and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>CHST 088A</td>
<td>The Outdoor Environment</td>
<td>1</td>
</tr>
</tbody>
</table>

Complete the following courses: 15 units

**Complete 6 units from the following list (not already completed from Level 1 Certificate):**

- CHST 053 Contemporary Education in a Changing Society | 3
- CHST 058 Language and Literacy Development | 3
- CHST 059 Music and Movement for Young Children | 3
- CHST 060 Children’s Ways of Thinking and Knowing | 3
- CHST 067 Creative Art Experiences and Development | 3
- CHST 088 Early Childhood Environments | 3
- CHST 070 Infant-Toddler Development & Care | 3

**Total Certificate Units**: 21

For crosswalk of new subject codes, see page 61

**Recommended Course Sequence:**

- **Fall, Year 1 (12 Units):**
  - CHST 058, CHST 080, CHST 087, CHST 088

- **Spring, Year 1 (9 Units):**
  - CHST 055, CHST 035, CHST 088A, WRKX 303

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**PREREQUISITES AND COREQUISITES are MANDATORY.** See page 5 for specific information.

**Courses used to meet prerequisite requirements must have been completed with a grade of C or Pass or better.**
CHST 001 PRINCIPLES & PRACTICES OF TEACHING YOUNG CHILDREN
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
C-ID ECE 120
This course examines the underlying theoretical principles of developmentally appropriate practices applied to programs and environments. Emphasis is on the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and intellectual development for all young children. This course includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics, and professional identity. Pass/No Pass Option

CHST 002 CHILD GROWTH AND DEVELOPMENT
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
C-ID CDEV 100
This course provides an introduction to human growth and development from conception through adolescence including physical growth, language, and social-emotional and cognitive development of the child. Topics discussed include theories of development; developmental and cultural contexts; heredity; societal influences and interaction with the environment. Observation of children is required. Pass/No Pass Option

CHST 005 DIVERSITY: CHILDHOOD AND CULTURE
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
C-ID ECE 230
This course examines the development of social identities in diverse societies including theoretical and practical implications affecting young children, families, programs, teaching, education and schooling. Culturally relevant and linguistically appropriate anti-bias approaches supporting all children and families, programs, teaching, education and schooling. Culturally relevant and linguistically appropriate anti-bias approaches supporting all children in becoming competent members of a diverse society are covered. This course also involves self-reflection of one’s own understanding of educational principles in integrating anti-goals in order to better inform teaching practices and/or program development. Pass/No Pass Option

CHST 033A FAMILY DEVELOPMENT
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
The course focuses on a strength-based approach to interviewing families, assessing and building family communication skills, assessing and connecting families with community resources within a framework of cultural competency. This course prepares students to work with children and families in a variety of settings such as community based organizations and larger social service or educational agencies. It is recommended for students interested in working in Social Services, Health Services and Education settings that require skills in family assessment, intervention and referral. Pass/No Pass Option

CHST 033B FAMILY DEVELOPMENT
3 units
Lecture 3 units; lab 0 units
Prerequisite: CHST 033A
Acceptable for credit: California State University
This course provides students with the opportunity to apply the skills acquired in CHST 33A by practicing the skills required to help coach families to set and reach their goals for healthy self-reliance. The advanced skills and competencies in the areas of establishing healthy boundaries, home visitations, group conferencing and making and following through on referrals to community agencies are covered. This course is designed for students interested in working in Social Services, Health Services and Education settings that require skills in family assessment, intervention and referral. Pass/No Pass Option

CHST 034A INTRODUCTION TO THE CHILD WITH SPECIAL NEEDS
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
This course is designed for students who are considering a career in special education or desire to work with children and families with special needs. The course provides an overview of common disabilities of children and the impact on families. Educational issues, techniques, methods of intervention, and case management are explored. An examination of public law, the Individuals with Disabilities Act (IDEA), and the development of the Individual Family Services Plan (IFSP) and Individual Educational Plan (IEP) are included. Teaching practices and philosophies of inclusion in child development programs and schools are discussed and adaptations and intervention methods designed. Observation of children is required. Pass/No Pass Option

CHST 035 PRACTICUM IN EARLY CHILDHOOD EDUCATION
3 units
Lecture 3 units; lab 0 units
Prerequisites: CHST 001 and CHST 002 and CHST 063 and CHST 080.
Corequisite: WRX 302
Acceptable for credit: California State University
C-ID ECE 210
This course students have the opportunity to practice and demonstrate developmentally appropriate early childhood program planning and teaching competencies under the supervision of ECE/CD faculty and other qualified early education professionals. Students utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment and knowledge of curriculum content areas are emphasized as student teachers design, implement, and evaluate experiences that promote positive development and learning for all young children. Students may be placed in the public school setting in pre-kindergarten to 3rd grade classrooms, in licensed early childhood programs serving infants through school-age children, or in classrooms serving children with special needs. Pass/No Pass Option

CHST 053 CONTEMPORARY EDUCATION IN A CHANGING SOCIETY
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
This course focuses on American education and its policies with an international perspective, including its impact on children, families, and communities, and the challenges of teaching in a diverse society. Additional topics include classroom experiences, educational philosophies, curriculum standards, assessment, teacher responsibilities, and parent partnerships. This course also covers the international perspective on school systems, pedagogy, achievement, beginning school, and pre-kindergarten practices in today’s global society. Pass/No Pass Option

CHST 058 LANGUAGE AND LITERACY DEVELOPMENT
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
This course explores the young child’s speech and language development including the developmental stages of receptive and expressive language, conversations, print awareness, phonemic awareness, reading, writing, and bilingual development. Students have the opportunity to use language arts materials, design print-rich environments, and plan language and literacy experiences for young children. Pass/No Pass Option
CHST 059 MUSIC AND MOVEMENT FOR YOUNG CHILDREN
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
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. Pass/No Pass Option

CHST 060 EARLY CHILDHOOD STEM CURRICULUM
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
This course provides an examination of cognitive development in young children within the context of early childhood Science, Technology, Engineering and Math (STEM) curriculum. Emphasis is on developmentally appropriate learning experiences which enhance children’s thinking and understanding of the physical and social world. Additional topics include brain development, implications of Piaget’s and Vygotsky’s theory of constructivism, teacher-learner interactions, and using content standards for science and mathematics. Pass/No Pass Option

CHST 063 CHILD, FAMILY, AND COMMUNITY
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
C-ID CDEV 110
This course examines the developing child in a societal context focusing on the interrelationship of family, school, and community and emphasizes historical and socio-cultural facts. The processes of socialization and identity development are highlighted, showing the importance of respectful reciprocal relationships that support and empower families. Pass/No Pass Option

CHST 064 SUPERVISION AND ADMINISTRATION I
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
This course is an in-depth study of effective application of management and supervision procedures in early childhood programs. Topics include the unique goals, role and responsibility of the director, licensing and other regulation requirements, administrative structure and governance, budgeting, staff selection, program operation, policies and procedures, marketing, program assessment, and professional advocacy. Pass/No Pass Option
CHST 065 SUPERVISION AND ADMINISTRATION II
3 units
Lecture 3 units; lab 0 units
Advisory: CHST 064
Acceptable for credit: California State University
This class focuses on the principles and practices of supervision within early care and education programs. The social structure of the program is studied including organizational structure and processes, building partnerships with parents and staff, decision-making and problem solving processes, group dynamics, managing change, motivation, and leadership. Pass/No Pass Option

CHST 066 CHILD SAFETY, HEALTH AND NUTRITION
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
C-ID ECE 220
The course in child safety, health and nutrition is designed for persons working with typical and atypical young children. It includes the study of infectious disease, preventative health practices, infant/child/adult first aid/CPR and injury prevention, nutrition components, food pyramid/plate, and menu planning. This course is designed to meet state requirements in accordance with SB 1524. Pass/No Pass Option

CHST 067 CREATIVE ART EXPERIENCES & DEVELOPMENT
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
This course explores factors that affect the development of creative art expression and aesthetics in children. The developmental aspects of art expression, the role of the environment, materials, and adult-child interaction in fostering and nurturing creative art expression are emphasized. Pass/No Pass Option

CHST 070 INFANT-TODDLER DEVELOPMENT & CARE
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
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. Pass/No Pass Option

CHST 080 INTRODUCTION TO CURRICULUM
3 units
Lecture 3 units; lab 0 units
Prerequisites: CHST 002 and CHST 063
Acceptable for credit: California State University
C-ID ECE 130
This course presents an overview of knowledge and skills related to providing appropriate curriculum and environments for young children from birth to age 6. Students have the opportunity to examine a teacher’s role in supporting development and engagement for all young children. This course covers strategies for developmentally-appropriate practice based on observation and assessments across the curriculum, including 1) academic content areas, 2) play, art, and creativity, and 3) development of social-emotional, communication, and cognitive skills. Pass/No Pass Option

CHST 085 ADULT SUPERVISION IN EARLY CHILDHOOD PROGRAMS
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
This course is a study of methods and principles of program and professional assessment, evaluation, and communication appropriate for individuals who supervise adult teachers, parents, and volunteers in early childhood programs. A variety of professional and program instruments including NAEYC and NAFCC Accreditation self-study materials designed for use in assessing staff performance and program quality are discussed in an in-depth analysis of on-going assessment and its importance in program and professional development. In addition, self-assessment, leadership style, communication styles and career development are examined. Pass/No Pass Option

CHST 086 TECHNOLOGY FOR ADMINISTRATORS AND TEACHERS IN EARLY CHILDHOOD EDUCATION
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
This course offers a comprehensive survey of the ways technology can facilitate the operational functions of administrators and teachers in an early childhood program. Collecting and storing information, communication technologies such as EMAIL, voice mail, web site home page, and Internet options as well as video and photo documentation are examined. Innovative uses of technology and the role of documentation and visual presentation in the planning and evaluating of early childhood programs are explored. Pass/No Pass Option

CHST 087 OBSERVATION AND ASSESSMENT
3 units
Lecture 2.5 units; lab 0.5 units
Prerequisites: CHST 002 and CHST 063
Acceptable for credit: California State University
C-ID ECE 200
This course is an in-depth study of techniques to observe and record behavior in educational settings. Emphasis is on the observation and assessment of behavior as an integral element within the context of the developmental interaction and emergent curriculum models. Recording strategies, rating systems, portfolios, and multiple assessment methods are explored. Pass/No Pass Option

CHST 088 EARLY CHILDHOOD ENVIRONMENTS
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: California State University
This course explores the latest concepts in creating and implementing indoor and outdoor early childhood environments which meet the developmental needs and interests of young children. Discussion of research, theory, and practice of environmental requirements for children’s optimal growth and well-being include: facility and assessment of child space; elements of developmentally appropriate settings; use of color, light, sound, texture, surfaces, and finishes; definition of space and creative ways to transform difficult spaces; designing spaces to create ambiance, organizational climate and work flow. The course also supports the collaboration of children, families, teachers, and other professionals in curriculum planning and implementation. Pass/No Pass Option

CHST 088A THE OUTDOOR ENVIRONMENT
1 unit
Lecture 1 unit; lab 0 units
This course focuses on the value of nature in childhood experiences and examines the potential of the outdoor playground to become an extension of the classroom, offering many opportunities for children to explore, create, discover, and learn. Topics include playground design, enhancing outside play and learning opportunities, teacher and parent education, curriculum planning, and daily routines that support active participation in the outdoor environment. Pass/No Pass Option

• ADVISORY is a recommended preparation, NOT a REQUIREMENT.
• This catalog is subject to change and may be incomplete. Please consult the addenda at westvalley.edu/catalog/
Communication Studies

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Degrees:
A.A.-T, Communication Studies
A.A., Communication Studies

The Communication Studies Department at West Valley College creates a transformative community within the classroom by encouraging students to listen intentionally, think critically, and speak passionately. Their seven-course curriculum bridges theoretical concepts with lived experiences, creating a personalized educational journey.

Highlights
• An exemplary teaching faculty dedicated to assisting students to improve their communication effectiveness
• Course offerings in fulfillment of AA degree, AA-T degree, IGETC and CSU oral transfer requirements
• State of the art public speaking facilities providing students with access to presentation technologies
• Evening and online class offerings
• Winter and Summer class offerings

Career Options
• Consulting
• Corporate training
• Education
• Marketing and sales
• Mass media
• Mediation
• Political and social service
• Public relations

Degree
A.A., Communication Studies, Communication Studies A.A.-T

COMMUNICATION STUDIES: For transfer information see assist.org and/or consult with a counselor.
For information on Associate in Arts for Transfer or Associate in Science for Transfer degrees, please go to westvalley.edu/catalog/.

Communication Studies

ASSOCIATE IN ARTS IN COMMUNICATION STUDIES FOR TRANSFER DEGREE (AA-T in Communication Studies)

Total Degree Units 60
GE Units (CSU GE or IGETC) 39 or 37

Total Major Units 18

CSU transferable elective courses are required when the major units plus transfer GE units total is less than 60
For crosswalk of new subject codes, see page 61

Recommended Course Sequence:
Fall, Year 1 (Sample Course Shown) (6 Units):
COMM 001, COMM 008

Spring, Year 1 (Sample Course Shown) (6 Units):
COMM 004, COMM 007

Fall, Year 2 (Sample Course Shown) (3 Units):
COMM 012

Spring, Year 2 (Sample Course Shown) (3 Units):
COMM 020

Requirements:
• A minimum of 18 semester or 27 quarter units in the major or area of emphasis as determined by the community college district;
• Obtainment of a minimum grade point average (GPA) of 2.0;
• Earn a grade of C or better in all courses required for the major or area of emphasis.

Students are not required to complete the information competency requirements, PE requirements or cultural diversity requirements found in other degrees at the College.

After completing an A.A. –T in Communication Studies, a student will be able to:
• Demonstrate effective communication skills in a variety of settings.
• Identify and explain concepts/theories of communication.

Course ID   Title                        Units

Required Core Courses: (3 units)
COMM 001   Public Speaking              3

List A: Any two of the following
COMM 020   Argumentation and Debate      3
COMM 008   Interpersonal Communication  3
COMM 004   Small Group Discussion       3

List B. Any two of the following or any course not used from List A
COMM 012   Intercultural Communication  3
COMM 010    OR Persuasive Speaking      3
COMM 010H   Honors Persuasive Speaking  3

List C. Any 1 of the following or any course not already used above
COMM 007   Survey of Communication: Career Building Strategies  3
ANTH 003   Introduction to Cultural Anthropology  3
PSYC 001   General Psychology            3
SOCI 001   Introduction to Sociology     3
ENGL 001B  Critical Thinking Through Literature  3
ENGL 001C  Critical Thinking and Writing  3
ENGL 001CH Honors Critical Thinking and Writing  3

Total Major Units 18
GE Units (CSU GE or IGETC) 39 or 37

PREREQUISITES AND COREQUISITES are MANDATORY. See page 5 for specific information.
Courses used to meet prerequisite requirements must have been completed with a grade of C or Pass or better.
COMMUNICATION STUDIES
A.A. Degree
The Communication Studies Department at West Valley College creates a transformative community within the classroom by encouraging students to listen intentionally, think critically, and speak passionately. This seven course curriculum bridges theoretical concepts and lived experiences, creating a personalized educational journey. After completing an A.A. degree in Communication Studies, a student should be able to: demonstrate effective communication skills in a variety of settings and identify and explain concepts/theories of communication. The A.A. in Communications Studies is suitable for preparation for a baccalaureate in Communication Studies, Speech Communication, or Communication. Students may also be prepared for entry level positions in related occupations. After completing an A.A. in Communication Studies, a student will be able to:
• Identify and explain concepts/theories of communication;
• Demonstrate effective communication skills in a variety of settings.

Course ID Title Units
COMM 001 Public Speaking 3
COMM 004 Small Group Discussion 3
COMM 007 Survey of Communication: Career Building Strategies 3
COMM 008 Interpersonal Communication 3
COMM 012 Intercultural Communication 3
COMM 020 Argumentation and Debate 3
COMM 010 Persuasive Speaking 3
COMM 010H Honors Persuasive Speaking 3

Total Major Units 18
To be awarded an A.A. Degree, a student must complete:
1. Achieve a grade of "C" or better in the major requirements.
2. Additional units to meet the college graduation requirements.
Note: Some transferring institutions will count no more than 12 community college units toward a communication major. Communication units above that number transfer as general electives.

Recommended Course Sequence:
Fall, Year 1 (6 Units):
COMM 001, COMM 008

Spring, Year 1 (6 Units):
COMM 004, COMM 007

Fall, Year 2 (3 Units):
COMM 012

Spring, Year 2 (3 Units):
COMM 020

PROFESSIONAL AND WORKPLACE COMMUNICATION Certificate of Achievement
The Professional and Workplace Communication Certificate is a 12-unit certificate designed to provide students lower division course work to build communication skills applicable to the everyday workplace environment. The certificate coursework is intended to help students become competent and effective dealing with interpersonal and intercultural communication common in a global workplace and in professional communication environments. The certificate focuses on skills that gives students the opportunity to acquire the ability to identify and explain concepts and practically apply professional, and smart career-related communication skills such as business presentations, conflict management, interviewing, cross-cultural competence, active listening, team and relationship building, leadership, and more.

Upon successful completion of this program, a student will be able to:
• Demonstrate improved workforce communication skills
• Demonstrate and apply communication theories and strategies
• Demonstrate successful verbal and nonverbal workplace skills
• Demonstrate the abilities to effectively communicate at work
• Design and deliver business presentations
• Build relationships and teams
• Develop leadership skills
• Implement conflict management strategies
• Conduct and prepare for interviews
• Employ cross-cultural competencies

This Certificate will result in improved confidence and effectiveness in the global workplace and in professional communication environments.

Course ID Title Units
Required Courses (choose one)
COMM 001 Public Speaking 3
COMM 010 Persuasive Speaking 3

Required Courses (choose three)
COMM 004 Small Group Discussion 3
COMM 007 Survey of Communication: Career Building Strategies 3
COMM 008 Interpersonal Communication 3
COMM 012 Intercultural Communication 3

Total Certificate Units 12
For crosswalk of new subject codes, see page 61

Recommended Course Sequence:
Fall, Year 1 (6 Units):
COMM 001, COMM 012

Spring, Year 1 - example course (6 Units):
COMM 007, COMM 008

COMM 001 PUBLIC SPEAKING
3 units
Lecture 3 units; lab 0 units
Prerequisite: ENGL 905 or LRSV 941C
Advisory: READ 053
Acceptable for credit: University of California, California State University
C-ID COMM 110
This basic course emphasizes the basic principles of preparation, organization, research, outlining, delivery and evaluation of at least three extemporaneous oral speeches that are given in the physical presence of other listeners. It includes study of the process of communication, evaluating and utilizing evidence, principles of speech preparation and outline organization, management of communication apprehension, the role of the listener in public speaking, speech evaluation, rhetorical principles, and verbal and nonverbal delivery techniques.

COMM 004 SMALL GROUP DISCUSSION
3 units
Lecture 3 units; lab 0 units
Prerequisite: ENGL 905
Acceptable for credit: University of California, California State University
C-ID COMM 140
This course is designed to provide students with theoretical and practical insights, experiences, and principles of communication in a variety of group contexts. Areas of focus include the theory and practical application of leadership, information-sharing, problem-solving, conflict management, and critical decision-making. The communication process is also evaluated.
COMM 007 SURVEY OF COMMUNICATION: CAREER BUILDING STRATEGIES
3 units
Lecture 3 units; lab 0 units
Advisory: READ 053 and ENGL 905
Acceptable for credit: California State University
C-ID COMM 180
This introductory survey of communication course is focused on the basic foundations of interpersonal communication, small group communication, and public speaking with an emphasis on career building strategies. Students are introduced to the conceptual breadth of the human communication discipline as it relates to social behavior in the workplace. Additionally, students have the opportunity to examine and practice communication theories and principles to develop critical thinking and communication competencies in a variety of business and professional contexts, such as: team-building, leadership, presentation skills, interviewing strategies, cross-cultural competence, organizational communication, and conflict management.

COMM 008 INTERPERSONAL COMMUNICATION
3 units
Lecture 3 units; lab 0 units
Advisory: READ 053 and ENGL 905
Acceptable for credit: University of California, California State University
C-ID COMM 130
This course is designed to help students analyze the principles of verbal and nonverbal transactions that occur in personal and professional interpersonal contexts. This course gives students the opportunity to apply theory and research findings into practical skills within interpersonal relationships.

COMM 010 PERSUASIVE SPEAKING
3 units
Lecture 3 units; lab 0 units
Prerequisite: ENGL 905
Advisory: READ 053
Acceptable for credit: University of California, California State University
C-ID COMM 190
This communication studies course offers students the opportunity to examine historical and contemporary approaches to persuasive messages throughout time. It focuses on the presentation of persuasive appeals, and learning to construct, deliver, critique, and analytically evaluate persuasive messages in a variety of contexts. This course includes preparing, outlining, and presenting at least two extemporaneous oral persuasive speeches that are given in the physical presence of other listeners. This course also includes a project that analyzes persuasive messages with a presentation of findings component.

COMM 010H HONORS PERSUASIVE SPEAKING
3 units
Lecture 3 units; lab 0 units
Prerequisite: ENGL 905
Advisory: READ 053
Acceptable for credit: University of California, California State University
C-ID COMM 190
This communication studies course offers students the opportunity to examine historical and contemporary approaches to persuasive messages throughout time. It focuses on the presentation of persuasive appeals, and learning to construct, deliver, critique, and analytically evaluate persuasive messages in a variety of contexts. This course includes preparing, outlining, and presenting at least two extemporaneous oral persuasive speeches that are given in the physical presence of other listeners. This course also includes a project that analyzes persuasive messages with a presentation of findings component. Honors Persuasive Speaking uses the pedagogical methods common to all Honors courses: interdisciplinary, writing-intensive, collaborative, and experiential instruction. Course content makes connection through a common theme with other courses offered within the specified transdisciplinary unit.

COMM 012 INTERCULTURAL COMMUNICATION
3 units
Lecture 3 units; lab 0 units
Prerequisite: ENGL 905 or LRSV 941C
Advisory: READ 053
Acceptable for credit: University of California, California State University
C-ID COMM 150
This course highlights the importance of culture and how it constructs and creates verbal and nonverbal communication in global and domestic contexts. The emphasis is on the influence of culture, language, and social patterns on how members of cultures relate among themselves and with members of diverse groups. It is designed to help students appreciate and compare intercultural communication patterns within the larger context of American culture. It provides theoretical knowledge and practical application of effective communication within and between diverse cultural groups.

COMM 020 ARGUMENTATION AND DEBATE
3 units
Lecture 3 units; lab 0 units
Prerequisite: ENGL 905
Acceptable for credit: University of California, California State University
C-ID COMM 120
This course emphasizes the methods and basic principles of critical inquiry, argument, advocacy, as well as classical and dialogical debate structures. Students are introduced to brief preparation, rhetorical theory, testing evidence, evaluating evidence sources, advancing reasoned positions, and effectively presenting and defending those positions. Analysis, presentation, and the evaluation of oral and written arguments are covered including identifying logical fallacies in reasoning and language. This course includes preparing and presenting two or more oral debates within the physical presence of the live classroom audience.

Computer Aided Drafting and Design
(See Interior Design)

Computer Applications
(for courses formerly housed in Computer Applications, see Business Administration
(BUSN, 42, 44, 46, 47))
Certificates:

Computer Science

The CIS Department at West Valley College offers a complete computer curriculum using state-of-the-art computing equipment. The West Valley counselors will aid in choosing the option that best meets the student’s needs. The following is an outline of the REQUIRED and RECOMMENDED courses in Certificate Programs. Many programs are based on prior completion of PREREQUISITES. Certificates are awarded upon the recommendation of the individual departments. Consult your catalog and see a counselor for clarification and further information.

COMPUTER SCIENCE: For transfer information see assist.org and/or con

NOTE: Students with absolutely no programming experience may consider consulting with a counselor.

PREREQUISITES. Certificates are awarded upon the recommendation of the student and the department. Many programs are based on prior completion of PREREQUISITES. Certificates are awarded upon the recommendation of the individual departments. Consult your catalog and see a counselor for clarification and further information.

COMPUTER SCIENCE: For transfer information see assist.org and/or consult with a counselor.

NOTE: Students with absolutely no programming experience may consider completing Introduction to Python (CISTS 005A). Otherwise choose a language path of C++ (CISTS 004A and CISTS 004B) or Java (CISTS 004A1 and CISTS 004B1). All CS students need to understand computer organization (Microcomputer Assembler CISTS 039), and apply their knowledge on applications with Programming in C (CISTS 037) or Advanced Python (CISTS 035B).

Certificate of Achievement

The goals and objectives of the Computer Science Certificate of Achievement are to provide a solid theoretical foundation and practice of computer organization and software development encompassing analysis and design, to implementation and testing.

Upon completion of the Computer Science Certificate of Achievement, students will demonstrate the ability to:

1. Use a scripting language (like Python) to perform data analysis
2. Design, implement and test programs written with a compiled, object-oriented language (like C++ or Java)
3. Implement and test common data structures (like stacks, queues, heaps, maps, trees and graphs) and algorithms with a compiled, object-oriented language (like C++ or Java)
4. Demonstrate an understanding of computer organization (hardware) and be able to code in assembly language

The certificate is designed for those students who have a desire to pursue a career as a computer or engineering technician.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CISTS 005A</td>
<td>Introduction to Python</td>
<td>4</td>
</tr>
<tr>
<td>CISTS 004A or CISTS 004A1</td>
<td>Computer Programming I (C++ Programming)</td>
<td>4</td>
</tr>
<tr>
<td>MATH 019</td>
<td>Discrete Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>CISTS 004B or CISTS 004B1</td>
<td>Computer Programming II (C++ Language)</td>
<td>4</td>
</tr>
<tr>
<td>CISTS 039</td>
<td>Microcomputer Assembler Programming</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Certificate Units 22-23

For crosswalk of new subject codes, see page 61

Recommended Course Sequence:

Fall, Year 1 (8 Units):
CISTS 005A, CISTS 004A or CISTS 004A1

Spring, Year 1 (8 Units):
MATH 019, CISTS 004B or CISTS 004B1

Fall, Year 2 (6-7 Units):
CISTS 039, CISTS 005B or CISTS 037

CISTS 002 INTRODUCTION TO COMPUTING

4 units
Lecture 4 units; lab 0 units
Advisory: MATH 106 or MATH 106R
Acceptable for credit: University of California, California State University
C-ID BUS 140

This is an introductory course in personal productivity computing, introducing students to the concepts and uses of computing in education, business, and society. Fundamentals of each of the major components of a computing system are examined: elementary functions of hardware; software for systems operations and applications; the relationship of data and information; the need for proper procedures; and the people who use and support computing. Students use computers for hands-on experience of computer productivity applications, including word processing, spreadsheets, presentation management, database management, and Internet access. Pass/No Pass Option

CISTS 004A COMPUTER PROGRAMMING I (C++ PROGRAMMING)

4 units
Lecture 4 units; lab 0 units
Advisory: MATH 106 or MATH 106R
Acceptable for credit: University of California, California State University
C-ID COMP 122

This is a foundation course emphasizing the concepts and methodologies of programming using the C++ language. Emphasis is on good programming style, object-oriented design, decomposition, encapsulation, abstraction, and testing. Example topics include memory allocation, flow control, logic, objects, classes, methods and argument passing, control structures, and iteration. Students have the opportunity to learn programming, documentation and software testing skills, algorithmic problem-solving, programming methodologies, and to write and debug small to medium-sized programs. Pass/No Pass Option

CISTS 004B COMPUTER PROGRAMMING II (C++ LANGUAGE)

4 units
Lecture 4 units; lab 0 units
Prerequisite: CISTS 004A
Advisory: MATH 106 or MATH 106R
Acceptable for credit: University of California, California State University
C-ID COMP 132

This is a continuation of CISTS 004A (Introduction to Computer Programming I-C++) intended for students majoring in CIS-Computer Science Option and/ or planning to transfer to a 4-year college or university Computer Science program. CISTS 004B introduces concepts of abstract data types, C++ classes, separate compilation, and information hiding. Topics in data structures (dynamic allocation, linked lists, stacks and queues, and binary trees), and sorting/searching algorithms are introduced. The course includes both lecture and programming in C++. Pass/No Pass Option
CIST 004A1 COMPUTER PROGRAMMING I (JAVA)
4 units
Lecture 4 units; lab 0 units
Advisory: MATH 106 or MATH 106R
Acceptable for credit: University of California, California State University
C-ID COMP 122
CIS 004A1 focuses on the Java programming language. Emphasis is on good programming style, object-oriented design, decomposition, encapsulation, abstraction, and testing. Example topics include objects, classes, methods and argument passing, control structures, and iteration. Students have the opportunity to learn programming and documentation skills, algorithmic problem-solving, programming methodologies, and to write small to medium-sized programs. Pass/No Pass Option

CIST 004B1 COMPUTER PROGRAMMING II (JAVA)
4 units
Lecture 4 units; lab 0 units
Prerequisite CIST 004A1
Advisory: MATH 106 or MATH 106R
Acceptable for credit: University of California, California State University
C-ID COMP 132
This course is a continuation of CIS 004A1 (Computer Programming I (Java)) expanding on concepts of Java classes, interfaces, and inheritance. Topics in abstract data types, basic data structures, and sorting/searching algorithms are introduced. Additional topics include exceptions, input/output streams and other software engineering concepts. The course includes both lecture and programming in Java. Pass/No Pass Option

CIST 005A INTRODUCTION TO PYTHON
4 units
Lecture 3 units; lab 1 unit
Advisory: MATH 106 or MATH 106R
Acceptable for credit: University of California, California State University
This is a foundation course emphasizing the concepts and methodologies of programming using the Python language. Emphasis is on good programming style, object-oriented analysis and design, decomposition, encapsulation, abstraction and testing. Example topics include objects/classes, functions, argument passing, control structures, repetitions, lists/tuples, strings, dictionaries/sets, and recursion. Students have the opportunity to learn programming and documentation skills, algorithmic problem-solving, programming methodology, and to write small-to-medium sized programs. Pass/No Pass Option

CIST 005B ADVANCED PYTHON
4 units
Lecture 3 units; lab 1 unit
Advisory: CIST 005A and MATH 106 or 106R
Acceptable for credit: University of California, California State University
This is a continuation of CIST 005A (introduction to Computer Programming I (Python)) intended for students majoring in CIS-Computer Science Option and/or planning to transfer to a 4-year college or university. CIST 5B introduces concepts of abstract data types, Python classes, modules, and information hiding. Topics in data structures (collection types, complexity analysis, big-O notation, arrays, linear linked structures, interfaces and implementations, information hiding, polymorphism, stacks, queues, lists, trees, binary search trees, heaps, expression trees, unordered collections, bags, sets, dictionaries and graphs) and sorting/searching algorithms are introduced. Pass/No Pass Option

CIST 037 C PROGRAMMING
4 units
Lecture 4 units; lab 0 units
Prerequisite: CIST 004A or CIST 004A1
Acceptable for credit: University of California, California State University
The fundamentals of ANSI C language syntax, including C data types, statements (sequence, selection, and repetition), and standard C libraries are introduced in this course. Structured programming style using the C language is emphasized. Advanced topics such as structures, external files, bit manipulation, and pointers/dynamic allocation are also included. Pass/No Pass Option

CIST 039 MICROCOMPUTER ASSEMBLER PROGRAMMING
3 units
Lecture 3 units; lab 0 units
Advisory: MATH 106 or MATH 106R
Acceptable for credit: University of California, California State University
This course is designed to teach students how to write assembly language for Intel/DOS-compatible personal computers. It emphasizes fundamentals of computer operation. Also functions not readily apparent when using a high-level language, such as storage registers, binary arithmetic, and data representation, are of particular importance in this course. Programming assignments for this course use the instruction set developed for the Intel 80 x 86 and related microprocessors.

CIST 046A INTRODUCTION TO LINUX
4 units
Lecture 3 units; lab 1 unit
Advisory: MATH 106 or MATH 106R
Acceptable for credit: University of California, California State University
This course covers Linux operating system essential features such as Linux history, root privileges, basic utilities, file utilities, pipelines, compressing and archiving files, user/system information, user messaging, email, file system, links, shell, regular expressions, and secure network connectivity tools. Pass/No Pass Option

CIST 046B LINUX SHELL PROGRAMMING
4 units
Lecture 3 units; lab 1 unit
Advisory: CIST046A and MATH 106 or MATH 106R
Acceptable for credit: University of California, California State University
This course covers shell scripting in Linux. Students have the opportunity to access the command line interface, use basic bash shell commands to navigate the filesystem, manage files/directories, monitor programs and disk space, use built-in bash commands, write shell scripts (with variables, pipes, repetitions, user-inputs), run commands in background, use regular expressions, sed, gawk for pattern searching/transformation and stream processing. Students have the opportunity to automate system administration tasks, install application packages, create and use MySQL database objects, use lynx text-based browser to retrieve text data from web sites, and send emails via Linux email server. Pass/No Pass Option

• PREREQUISITES AND COREQUISITES are MANDATORY. See page 5 for specific information.
• Courses used to meet prerequisite requirements must have been completed with a grade of C or Pass or better.
## Counseling

### THE FACULTY
- Angelica Bangle
- Joe Bucher
- Michael Byers
- Andrew Cardamone
- Alicia Cardenas
- Freba Cognetta
- Maryam Fard
- Jean Finch
- Maria Garcia Schepers
- Tom Golbetz
- Hideo Ikeda
- Elise Johnson
- Jennifer Keh
- Bickie Lee
- Erika Llantero
- Christina Lierena
- Marta Mora-Evans
- Melissa Salcido
- Leticia Sanchez-Mendoza Hernandez
- Philip Sever
- Claudio Silva
- Michael West
- James Winkler

### DIVISION
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- Student Services

### DEAN
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### DEPARTMENT CO-CHAIR
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- melissa.salcido@westvalley.edu

### COUNSELING
- 408-741-2009

Most of the courses are CSU transferable, some meet CSU GE requirements, and all are WVC degree applicable.

### Learning Outcomes Courses
- After completing courses in Counseling, a student will be able to:
  - Identify and apply personal values and career preferences related to making effective career and major choices.
  - Identify strategies for making wise choices, goal setting, taking responsibility, and thinking critically about life choices.

### Learning Outcomes Services
- After utilizing Counseling programs and services, a student will be able to:
  - Select appropriate college courses, programs and services to meet individual needs and to support academic goals and success.

### COUN 000A COLLEGE ORIENTATION
- 0.5 units
- Lecture 0.5 units; lab 0 units

College Orientation is an introductory course that highlights community college, career, and transfer opportunities as well as strategies for academic success. The course includes an orientation to West Valley College programs and services, rules and regulations, an overview of general education requirements for transfer and graduation, an introduction to the registration process, and educational planning. Pass/No Pass Only

### COUN 002 ACADEMIC & PERSONAL PLANNING
- 1 unit
- Lecture 1 unit; lab 0 units
- Acceptable for credit: California State University

This course offers the opportunity for students to increase self-awareness, knowledge and understanding of personal, as well as educational objectives. The course facilitates academic and personal decision-making and promotes setting life goals, determining educational objectives, and developing appropriate short- and long-term plans. Pass/No Pass Option

### COUN 005 COLLEGE SUCCESS
- 3 units
- Lecture 3 units; lab 0 units
- Acceptable for credit: University of California, California State University

This course focuses on life management, goal setting, career decision making, educational planning, college expectations and opportunities, instructor-student relationships, cultural diversity, health maintenance, stress management, and resources. Learning styles and academic success strategies are also included. Pass/No Pass Option

### COUN 012 CAREERS AND LIFE STYLES
- 3 units
- Lecture 3 units; lab 0 units
- Acceptable for credit: California State University

This course assists students in identifying values, interests, and career alternatives through a variety of personality and occupational exploration techniques. Students have the opportunity to learn and prepare for careers and lifestyles in an ever-changing world by developing decision making, goal setting and planning skills. Pass/No Pass Option

### COUN 012C CAREERS AND LIFE STYLES
- 1 unit
- Lecture 1 unit; lab 0 units
- Acceptable for credit: California State University

Couns 12C is a special topic module for those who desire more in-depth career direction. This course focuses on specialized concerns relating to job search and the world of work. Pass/No Pass Option

### COUN 024 PERSONAL GROWTH
- 3 units
- Lecture 3 units; lab 0 units
- Acceptable for credit: California State University

Personal Growth is designed to assist students in increasing awareness of themselves and others, and identifying their personal strengths, challenge areas, and potential for personal growth. This course promotes growth by giving students opportunities to develop decision-making strategies, conflict resolution skills, assertive training techniques, and stress management tools. By cultivating awareness and compassion practices, students also have the opportunity to learn how to regulate their attention and emotions, reduce reactivity and distress, and cultivate healthier relationships. Students also have the opportunity to learn how to recognize physical, mental, and emotional experiences, and to develop effective communication skills, so they can express thoughts and feelings and improve and enrich their relationships with others. Pass/No Pass Option

### COUN 045 SUCCESSFUL STUDY STRATEGIES
- 1 unit
- Lecture 1 unit; lab 0 units
- Acceptable for credit: California State University

This course offers students the opportunity to improve their study skills and become more aware of their potential for success. Strategies for time management, note taking, preparation for examinations, taking examinations, and other study techniques are presented. Pass/No Pass Option
COUN 050 CROSS-CULTURAL PERSPECTIVES
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
This course will explore 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, education, the world of work, media in the United States, ethnocentrism and racism. The goals will be to enhance understanding, insights, and respect for diverse cultural groups. Cultures examined include: African American, Latino/Chicano, Japanese American, Chinese American, Vietnamese American, Native American, and Middle Eastern. This course satisfies Cultural Diversity requirement for an Associate degree. Pass/No Pass Option

Court Reporting and Related Technologies

THE FACULTY
Margaret Ortiz

DIVISION: School of Continuing Education
DEAN: Chris Dyer
DIRECTOR: Eric Grabiel
PROGRAM COORDINATOR: Margaret Ortiz
PHONE: 408-741-2559
EMAIL: maggie.ortiz@westvalley.edu

The Court Reporting and Captioning Program is now being offered, tuition free, through the School of Continuing Education. Please see that section of the College Catalog for more information on course and certificate offerings. With the exception of CTRP 44, Court Reporting Internship, all courses in this section will not be offered for the 2020-2021 academic year.

Certificates:
Scoping and Proofreading
Transcription Technology and Office Support
Educational Captioning
Court Reporting

The Court Reporting and Related Technologies Department offers career education and training in court reporting as performed in courtrooms and deposition settings. The Department also prepares students for careers in the related fields of captioning, transcription, and office support technology. The Department is recognized by the Court Reporter’s Board of California to qualify students to sit for the California Certified Shorthand Reporter’s Examination. Licensed by the state, court reporters preserve all legal proceedings and submit their verbatim record as the official transcript.

IT IS STRONGLY RECOMMENDED THAT STUDENTS ENROLL IN CERTIFICATES IN THE ABOVE SEQUENCE BECAUSE EACH CERTIFICATE CONTAINS COURSE PREREQUISITES FOR COURSES OFFERED IN SUBSEQUENT CERTIFICATES.

"IN ORDER FOR A PERSON TO QUALIFY FROM A SCHOOL TO TAKE THE STATE LICENSING EXAMINATION, THE PERSON SHALL COMPLETE A PROGRAM AT A RECOGNIZED SCHOOL. FOR INFORMATION CONCERNING THE MINIMUM REQUIREMENTS THAT A COURT REPORTING PROGRAM MUST MEET IN ORDER TO BE RECOGNIZED, CONTACT: THE COURT REPORTERS BOARD OF CALIFORNIA; 2535 CAPITOL OAKS DRIVE, SUITE 230, SACRAMENTO, CA 95833, (916) 863-3664".

Career Options
• Official Court Reporter
• Deposition Reporter
• Broadcast Captioner
• CART Provider (Communication Access Realtime Translation) for the deaf and hard-of-hearing
• Legal, Medical, and General Transcriptionist
• Scopist and/or proofreader assisting court reporters

 расположенno

SCOPING AND PROOFREADING
Certificate of Achievement
The Scoping and Proofreading certificate is designed to provide relevant skills to individuals pursuing careers assisting court reporters in the production of certified transcripts of legal proceedings using specialized computer-aided transcription software. Courses are also designed to provide general proofreading skills required for employment outside of the legal environment.

After completing this certificate, students will be able to:
• Attain fluency in reading and translating stenographic theory language.
• Apply correct punctuation, English, medical and legal terminology in finalizing verbatim transcripts of legal and other proceedings.
• Attain proficiency in the practice of computer-aided transcription software for aiding in the production of court reporting transcripts.

• PREREQUISITES AND COREQUISITES are MANDATORY. See page 5 for specific information.
• Courses used to meet prerequisite requirements must have been completed with a grade of C or Pass or better.
• Write stenographically at a minimum of 80 words per minute on a machine writer.
• Apply industry-standard techniques of document preparation including formatting of various types of documents.
• Recognize homonyms and apply correct spelling within context.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTR 007A</td>
<td>Court Reporting Theory I</td>
<td>5</td>
</tr>
<tr>
<td>READ 053</td>
<td>Critical and Efficient Reading</td>
<td>3</td>
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<tr>
<td>ENGL 005</td>
<td>English Fundamentals-A Preparatory</td>
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<td>CTR 007B</td>
<td>Court Reporting Theory II</td>
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<td>CTR 026</td>
<td>Adv English &amp; Office Practices for Ctr</td>
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<tr>
<td>CTR 007C</td>
<td>Court Reporting Theory III</td>
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<tr>
<td>CTR 008A</td>
<td>Realtime and Computer-Aided Basic</td>
<td>2</td>
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<tr>
<td>CTR 008</td>
<td>Introduction to the Legal Record: Jury Charge/ Literary Focus</td>
<td>6.5</td>
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<tr>
<td>CTR 028A</td>
<td>Computer Aided Transcription</td>
<td>2.5</td>
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</table>

Total Certificate Units 35

A Certificate of Achievement as a Scoping and Proofreading can be earned by students who have completed all required courses with at least a grade of “C” or “Pass”.

For crosswalk of new subject codes, see page 61

Recommended Course Sequence

Fall, Year 1 (8 Units):
CTP 007A, READ 053

Spring, Year 1 (10 Units):
ENGL 005, CTP 007B, CTP 008A

Fall, Year 2 (8 Units):
CTP 007C, CTP 026

Spring, Year 2 (9 Units):
CTP 008, CTP 028A

Transcription Technology and Office Support Certificate of Achievement

This certificate is designed to provide relevant skills to individuals pursuing careers transcribing legal, medical, or general material, and/or providing office technology/office computer applications support. Transcribers, also known as transcriptionists, convert speech (either live or recorded) into written or electronic text documents. Transcription services are often provided for business, legal, or medical purposes. Transcribers may work from home, in hospitals or physicians’ offices, and in various business environments.

After completing the certificate in Transcription Technology and Office Support, students should be able to:

• Demonstrate proficiency in industry-standard computer-aided software to produce accurate transcripts of legal, medical, and general live and audio-recorded material.
• Write legal, medical, and general subject matter, stenographically, a minimum of 120 words per minute on a machine writer.
• Demonstrate proficiency in Microsoft Word to provide entry-level office support and to import/produce accurate transcripts of legal, medical, and general live and audio-recorded material.
• Demonstrate recognition of and correct spelling of legal and medical terminology and English vocabulary.
• Demonstrate proficiency in Excel to create spreadsheets, enter data, and construct basic formulas.
• Demonstrate understanding of entry-level office support within various business environments, including, but not limited to, law firms and deposit firms.
• Demonstrate basic software competency in Microsoft Word and Excel.

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<tr>
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<td>CTR 010</td>
<td>Introduction to the Legal Record: Question and Answer Testimony</td>
<td>6.5</td>
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<tr>
<td>AJ 003</td>
<td>Principles &amp; Procedures of the Justice System</td>
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<tr>
<td>OR</td>
<td>Introduction to Administration of Justice</td>
<td>3</td>
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<tr>
<td>CTR 012</td>
<td>Introduction to the Legal Record: Multiple Attorney Focus</td>
<td>6.5</td>
</tr>
<tr>
<td>PARA 021</td>
<td>Introduction to American Law</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>Business Law</td>
<td>3</td>
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<tr>
<td>BUS 028</td>
<td>Business Law</td>
<td>3</td>
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<tr>
<td>BUS 046</td>
<td>Beginning Microsoft Word Documents</td>
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<tr>
<td>HTECH 005</td>
<td>Basic Medical Terminology</td>
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<td>PARA 065B</td>
<td>Microsoft Word for the Law Office</td>
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<tr>
<td>OR</td>
<td>Effective Office Skills</td>
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</table>

Total Certificate Units 29

A Certificate of Achievement in Transcription Technology and Office Support can be earned by students who have completed all required courses with at least a grade of “C” or “Pass”.

Before beginning any Court Reporting or Related Technology program, the student should have keyboarding skills of at least 45 words per minute; the Computer Applications program offers keyboarding classes.

For crosswalk of new subject codes, see page 61

Recommended Course Sequence:

Fall, Year 1 (9.5 Units):
CTP 010, ADMJ 003 or ADMJ 001

Spring, Year 1 (9.5 Units):
CTP 012, PARA 021 or BUSN 028

Fall, Year 2 (7 Units):
BUSN 042, BUSN 046, HTECH 005

Spring, Year 2 (3 Units):
PARA 065B or BUSN 070

Educational Captioning Certificate of Achievement

The Educational Captioning Certificate of Achievement is intended to provide the required academic knowledge, proficiency, and work experience to individuals pursuing careers as educational captioners, also known as Communication Access Realtime Translation providers. Students will be given the opportunity to gain the skills necessary to stenographically write. This certificate includes courses required to qualify students to write accurate real-time translation of the spoken word in classroom and meeting settings. This certificate has an academic captioning focus including appropriate procedures for the educational captioner and coverage of ethical issues facing educational captioners.

After completing this certificate, students will be able to:

• Stenographically write the spoken word at 180 words per minute, for computer-aided software translation into English in real time, and produce transcripts with 97.5 percent accuracy.
• Explain correct captioning protocol for classroom and meeting environments.
• Recognize and respond appropriately to ethical issues facing educational captioners.

<table>
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<tr>
<th>Course ID</th>
<th>Title</th>
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Advisory: is a recommended preparation, NOT a REQUIREMENT.
The Court Reporting Certificate of Achievement is the top level of four “stacked” program certificates and is intended to provide relevant academic knowledge, proficiency, and work experience to individuals pursuing careers as court reporters in the United States. This certificate also includes the final courses required to qualify students to apply to take the California Certified Shorthand Reporter written and skills licensing examinations.

After completing this certificate, students will be able to:

- Write stenographically, for ten minutes, four-voice testimony at 200 words per minute with 97.5% accuracy as required to pass the skills examination of the Court Reporters Board of California, Department of Consumer Affairs.
- Use Standard English punctuation and grammar, medical and legal terminology, and technology as required to pass the Certified Shorthand Reporter skills and written examinations of the Court Reporters Board of California, Department of Consumer Affairs.
- Produce accurate, properly formatted transcripts of actual court and deposition legal proceedings.

**Recommended Course Sequence:**

**Fall, Year 1 (6.5 Units):**
CTR 021, CTRP 042A

**Spring, Year 1 (9.5 Units):**
CTR 023, CTRP 038
CTR 021, CTRP 042A

**Fall, Year 2 (3 Units)**
CTR 042B, CTRP 044

**CTR 007A COURT REPORTING THEORY 1**
5 units
Lecture 3 units; lab 2 units
Prerequisite: CTRP 007A
Acceptable for credit: California State University
In this course, students have the opportunity to study and apply beginning-level computer-compatible stenographic theory language and concepts necessary to write and read back basic English vocabulary at 30 words per minute with 90 percent accuracy. Pass/No Pass Option

**CTR 007B COURT REPORTING THEORY 2**
5 units
Lecture 3 units; lab 2 units
Prerequisite: CTRP 007A
Acceptable for credit: California State University
In this course, students have the opportunity to study and apply intermediate-level computer-compatible stenographic theory language and concepts necessary to write and read back English vocabulary. Contractions, prefixes, and suffixes are introduced. Pass/No Pass Option

**CTR 007C COURT REPORTING THEORY 3**
5 units
Lecture 3.5 units; lab 3 units
Prerequisite: CTRP 007B
Acceptable for credit: California State University
In this course, students have the opportunity to complete final theory textbook lessons and to refine machine shorthand skills at 60 words per minute with 97 percent accuracy. Pass/No Pass Option

**CTR 008 INTRODUCTION TO THE LEGAL RECORD - JURY CHARGE/LITERARY FOCUS**
6.5 units
Lecture 3.5 units; lab 3 units
Prerequisite: CTRP 007C
Acceptable for credit: California State University
In this course, students have the opportunity to study and apply theory concepts to recognize and create stenographic outlines for standard jury instruction terminology and phrases and literary vocabulary necessary to attain a writing speed of 80 words per minute. Familiarization with basic transcription production is emphasized through a variety of assignments emphasizing correct formatting, punctuation, and proofreading techniques/symbolic. Effective strategies for organizing and tracking out-of-class assignments for facilitating skill development are also covered. Pass/No Pass Option

**CTR 010 INTRODUCTION TO THE LEGAL RECORD - QUESTION AND ANSWER TESTIMONY**
6.5 units
Lecture 3.5 units; lab 3 units
Prerequisite: CTRP 008
Acceptable for credit: California State University
In this course, students have the opportunity to study and apply theory concepts to recognize and create stenographic outlines for standard legal question and answer testimony terminology and phaseology necessary to attain a writing speed of 100 words per minute. Familiarization with transcript formatting requirements, effective practice techniques, professional communications etiquette and professional association support venues is emphasized through a variety of assignments and class discussion. Pass/No Pass Option
CTRP 012 INTRODUCTION TO THE LEGAL RECORD- MULTIPLE ATTORNEY FOCUS
6.5 units
Lecture 3.5 units; lab 3 units
Prerequisite: CTRP 010
Acceptable for credit: California State University
In this course, students have the opportunity to study and apply theory concepts to recognize and create stenographic outlines for standard legal terminology and phraseology necessary to attain a writing speed of 120 words per minute. Colloquy protocol, speaker identification, and transcription formatting are explained and applied. Familiarization with courtroom staff responsibilities and family and employment law terminology is emphasized through a variety of lecture, assignments and class discussion. One five-hour courtroom observation is required. Pass/No Pass Option

CTRP 014 INTRODUCTION TO THE LEGAL RECORD-MULTIPLE ATTORNEY/WITNESS FOCUS
6.5 units
Lecture 3.5 units; lab 3 units
Prerequisite: CTRP 012
Acceptable for credit: California State University
In this course, students have the opportunity to study and apply theory concepts to recognize and create stenographic outlines for standard legal terminology and phraseology necessary to attain a writing speed of 140 words per minute. Techniques for managing four different speakers are introduced. Familiarization with workers’ compensation, personal injury, and real estate/property law terminology and corresponding stenographic outlines is emphasized through a variety of lecture, assignments and class discussion. One five-hour courtroom observation is required. Pass/No Pass Option

CTRP 016 MASTERING THE LEGAL RECORD- COMPLEX DATA FORMATTING FOCUS
6.5 units
Lecture 3.5 units; lab 3 units
Prerequisite: CTRP 014
Acceptable for credit: California State University
In this course, students have the opportunity to study and apply theory concepts to recognize and create stenographic outlines for intermediate-level legal terminology and phraseology necessary to attain a writing speed of 160 words per minute. Machine writing and transcription focuses on proper formatting of dates, standard and military time, currency, case numbers, exhibits, legal citations, and other numeric expressions regularly used in legal proceedings. Lecture content and assignments include how to read and interpret the court calendar and identify and apply information critical to the official court reporter. Pass/No Pass Option

CTRP 018 MASTERING THE LEGAL RECORD- REALTIME SKILLS/CAPTIONSING FOCUS
6.5 units
Lecture 3.5 units; lab 3 units
Prerequisite: CTRP 016
Acceptable for credit: California State University
In this course, students have the opportunity to recognize and create stenographic outlines for intermediate to advanced-level vocabulary, terminology, and phraseology and apply speed building techniques necessary to attain a writing speed of 180 words per minute. Machine writing and transcription focuses on application of “realtime” writing skills for educational captioning, aka Communication Access Realtime Translation (CART), and other types of live captioning. Lecture content and assignments include building a captioning software dictionary, captioning terminology, mechanics, etiquette, ethical issues, expectations of, and responsibilities facing the live captioner. Pass/No Pass Option

CTRP 021 MASTERING THE LEGAL RECORD- COURTROOM FOCUS
6.5 units
Lecture 3.5 units; lab 3 units
Prerequisite: CTRP 018
Acceptable for credit: California State University
In this course, students have the opportunity to further refine stenographic outlines and speed-building techniques to attain an accurate writing speed of up to 200 words per minute with 97.5 percent accuracy. Machine writing and transcription focuses on court terminology and phraseology. Lecture content and assignments include record-keeping requirements, application of State of California Minimum Transcript Standards, frequently-used language used in legal proceedings, reference source selection, and requirements for making verbatim records of hearings, meetings, and conventions. Pass/No Pass Option

CTRP 023 MASTERING THE LEGAL RECORD- DEPOSITION FOCUS
6.5 units
Lecture 3.5 unit; lab 3 unit
Prerequisite: CTRP 021
Acceptable for credit: California State University
In this course, students have the opportunity to further refine stenographic outlines and speed-building techniques to attain an accurate writing speed of 225 words per minute with 95 percent accuracy. Machine writing and transcription focuses on deposition terminology and phraseology. Lecture content and assignments include marking, handling, and securing exhibits; swearing in witnesses; managing depositions with more than two attorneys; handling rough transcript requests; and standard deposition protocol and ethics. Pass/No Pass Option

CTRP 026 ADV. ENGLISH & OFFICE PRACTICES FOR COURT REPORTING
3 units
Lecture 3 units; lab 0 unit
Acceptable for credit: California State University
In this course, students have the opportunity to study and apply advanced grammar, punctuation, syntax, and word usage; communication skills; proofreading; filing procedures; dictation/ transcription procedures; and court reporting office methods and forms.

CTRP 028A COMPUTER AIDED TRANSCRIPTION
2.5 units
Lecture 2 units; lab 0.5 units
Prerequisites: CTRP 007C
Acceptable for credit: California State University
In this course, students have the opportunity to apply the theory and practice of Computer-Aided Transcription (CAT) as used in the fields of court reporting and captioning.

CTRP 030A REALTIME AND COMPUTER-AIDED BASIC DICTIONARY BUILDING
2 units
Lecture 1 unit; lab 1 unit
Prerequisite: CTRP 007B
Acceptable for credit: California State University
This course includes instruction in English text entry and non-technical dictionary building using an electronic stenographic writing machine, computer, and specialized software. Students have the opportunity to create and/or edit personal computer-aided transcription software dictionaries containing a minimum of 12,000 words. Pass/No Pass Only
**CTRP 030B REALTIME AND COMPUTER-AIDED LEGAL**

2 units  
Lecture 1 unit; lab 1 unit  
Prerequisite: CTRP 007B  
Acceptable for credit: California State University  
This course offers instruction in legal terminology text entry and legal dictionary building using an electronic stenographic writing machine, computer, and specialized software. Students have the opportunity to create software dictionaries of 12,000 words, including several hundred legal terms and phrases. Pass/No Pass Only

**CTRP 030C REALTIME AND COMPUTER-AIDED MEDICAL DICTIONARY BUILDING**

2 units  
Lecture 1 unit; lab 1 unit  
Prerequisite: CTRP 007B  
Acceptable for credit: California State University  
This course offers instruction in medical terminology text entry and medical dictionary building on an electronic stenographic writing machine, computer, and specialized software. Students have the opportunity to create and/or edit personal computer-aided transcription software dictionaries containing a minimum of 12,000 words including several hundred medical terminology entries. Pass/No Pass Only

**CTRP 038 COURT AND DEPOSITION PROCEDURES**

3 units  
Lecture 3 units; lab 0 units  
Acceptable for credit: California State University  
This course provides training in the procedures and professional practices in federal and California courts as these practices apply to the court reporter. Students have the opportunity to become acquainted with law governing the profession of court and deposition shorthand reporting. California law is emphasized. Ethical issues facing the reporter are examined. Office practices of the professional reporter are reviewed. Video recording of depositions, videoconferencing, and other emerging technologies and their impacts are discussed.

**CTRP 042A CERTIFIED SHORTHAND REPORTER’S REVIEW 1**

2 units  
Lecture 2 units; lab 0 units  
Prerequisites: CTRP 026 and CTRP 038  
Acceptable for credit: California State University  
This course is designed for the advanced court reporting student preparing to take the State of California Certified Shorthand Reporter’s examination. Emphasis is placed on medical and legal terminology, California codes, and rules of court of the State of California applicable to court reporting.

**CTRP 042B CERTIFIED SHORTHAND REPORTER’S REVIEW 2**

2 units  
Lecture 2 units; lab 0 units  
Prerequisites: CTRP 026 and CTRP 038  
Acceptable for credit: California State University  
This course is designed for the advanced court reporting student preparing to take the written portion of the State of California Certified Shorthand Reporter’s examination. Emphasis is placed on English grammar, general vocabulary, specialized punctuation, and proofreading required to produce a court or deposition transcript.

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**PREREQUISITES AND COREQUISITES are MANDATORY.** See page 5 for specific information.  
• Courses used to meet prerequisite requirements must have been completed with a grade of C or Pass or better.
Dance

THE FACULTY
Ann Malmuth-Onn, Dance Program Coordinator

DIVISION Cilker School of Art and Design
DEAN Andrew Chandler
DEPARTMENT CHAIR Lou De La Rosa
PHONE (408) 741-4663
EMAIL lou.delarosa@westvalley.edu
COUNSELING 408-741-2009

Certificate: Dance Specialist

Highlights:
• Instruction in Ballet, Jazz, Modern, Tap by professional dancers for dance and musical theater students
• Instruction in Ballroom and Latin Dance in evening for lifelong learners
• Instruction in World Dance: Flamenco
• Musical Theater Collaborative of Departments of Music & Dance and Theater Arts produces annual musical

DANCE SPECIALIST Certificate of Achievement

The Certificate of Achievement in Dance Specialist provides students an opportunity for a career in dance as a performer, choreographer, or instructor. Unique job opportunities include dance studio instructor, teaching assistant, children's dance instructor, community and musical theater, and group exercise instructor. Students will gain proficiency in leadership, communication, performance awareness, and artistic techniques. The main goal of the program is to prepare students for employment in dance and theater. Demonstrate proficiency as a dance instructor or performer in one dance form.

After completing the 12 unit Certificate of Achievement in Dance Specialist, students are prepared to enter a professional work environment in one or more of the following careers:
• Choreographer
• Dance studio instructor
• Dance teaching assistant
• Children's dance instructor
• Performer
• Group exercise instructor

There are no prerequisites for enrolling in this certificate program.

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<tr>
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<th>Title</th>
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<td>Jazz Dance- Intermediate</td>
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<td>KIN.3.16A</td>
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<td>Modern Dance- Beginning Level 2</td>
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Choose 2 units from the following courses

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<td>KIN.3.33</td>
<td>Dance Intensive</td>
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<td>KIN.3.34</td>
<td>Studio Dance Production</td>
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Total Certificate Units 12

For crosswalk of new subject codes, see page 61

Recommended Course Sequence:

Fall, Year 1 (4 Units):
KIN.3.36, KIN.TH 051 or 051H

Spring, Year 1, Fall, Year 2 (6 Units):
Choose 6 units Technique courses from 2nd list. 4 units must be intermediate level or above.

Fall, Year 2 (2 Units)
Choose 2 units from 3rd list

For Certificate of Achievement Course List above, please refer to this Dance Course Subject Code Crosswalk

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<tr>
<th>Old Subject Code</th>
<th>New Subject Code</th>
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<td>KIN.TH 051 or 051H</td>
<td>DANC 061 or 061H</td>
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<td>DANC 043</td>
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</table>

• ADVISORY is a recommended preparation, NOT a REQUIREMENT.
• This catalog is subject to change and may be incomplete. Please consult the addenda at westvalley.edu/catalog/
DANC 001 BALLET: BEGINNING LEVEL 1
1 unit
Lecture 0 units; lab 1 unit
Acceptable for credit: University of California, California State University
This course is an introduction to the discipline, aesthetics, traditions, and historical background of classical ballet at a beginning level. Previous ballet experience is not required at this level. Pass/No Pass Option

DANC 002 BALLET: BEGINNING LEVEL 2
1 unit
Lecture 0 units; lab 1 unit
Prerequisite: DANC 001
Acceptable for credit: University of California, California State University
This is the second course in the beginning level ballet sequence, designed to introduce the discipline, aesthetics, traditions, and historical background of classical ballet. An emphasis is placed on exploring the historical court dance forms of the Renaissance through the contemporary era. Pass/No Pass Option

DANC 003 BALLET: INTERMEDIATE
1 unit
Lecture 0 units; lab 1 unit
Prerequisite: DANC 002
Acceptable for credit: University of California, California State University
This course is a study of the discipline, aesthetic traditions and historical background of classical ballet at the intermediate level, building upon skills learned in DANC 001 and 002. New skills include pirouettes, sissone en pointe and turn combinations such as pique, soutenu, and chains. Pass/No Pass Option

DANC 004 BALLET: ADVANCED LEVEL 4
1 unit
Lecture 0 units; lab 1 unit
Prerequisite: DANC 003
Acceptable for credit: University of California, California State University
This course provides students the opportunity to develop advanced level skills in the discipline of ballet. This course focuses on perfecting technique and developing advanced level performance skills. Topics include grand adage combinations, and petite allegro and grand allegro combinations. Pass/No Pass Option

DANC 005 DANCE WORKSHOP
1 unit
Lecture 0 units; lab 1 unit
Acceptable for credit: University of California, California State University
This course is designed to provide students with an opportunity to work intensively on their technique and performance skills in a specific dance area.

DANC 006 DANCE INTENSIVE
1 unit
Lecture 0 units; lab 1 unit
Acceptable for credit: University of California, California State University
This course is designed to provide intermediate to advanced dance students an opportunity to expand and develop their technical skills, style, and performance technique in a specific area of dance such as jazz, modern, tap, ballet, flamenco, or ballroom. Dance techniques are intended to build strength, flexibility, and control. Rhythmic responses to music are emphasized along with the cultural history of the dance form and related terminology. Pass/No Pass Option

DANC 007 CHOREOGRAPHY
1 unit
Lecture 0 units; lab 1 unit
Acceptable for credit: University of California, California State University
This course provides students an overview of the field of choreography and a study of the elements of dance composition as related to a specific form of dance, such as Jazz, Modern, Ballet, and Tap, based on individual student need. Emphasis is placed on creating masks, costumes, and props. Students participate in a community and college performance. Pass/No Pass Option

DANC 008 REHEARSAL AND PERFORMANCE IN DANCE
1 unit
Lecture 0 units; lab 1 unit
Acceptable for credit: University of California, California State University
This course provides students an opportunity to rehearse and perform dances in an informal setting at the college and at various locations in the community. Emphasis is on group participation in all areas of dance production. The course includes dance warm-ups, techniques, choreography, group and solo rehearsals, and performances. Pass/No Pass Option

DANC 011 JAZZ DANCE: BEGINNING LEVEL 1
1 unit
Lecture 0 units; lab 1 unit
Prerequisite: DANC 001
Acceptable for credit: University of California, California State University
This course is designed to introduce the student to the medium of jazz dance through exposure to jazz dance history, technique, style, improvisations, and composition. Pass/No Pass Option

DANC 012 JAZZ DANCE: BEGINNING LEVEL 2
1 unit
Lecture 0 units; lab 1 unit
Prerequisite: DANC 011
Acceptable for credit: University of California, California State University
In this second level introductory course to jazz dance, the emphasis is placed on isolation, locomotive, and syncopated techniques and rhythms. Pass/No Pass Option

DANC 013 JAZZ DANCE: INTERMEDIATE
1 unit
Lecture 0 units; lab 1 unit
Prerequisite: DANC 012
Acceptable for credit: University of California, California State University
This course provides students with the opportunity to increase skill and knowledge in the various theories, styles, and techniques of the jazz idiom at the intermediate level, building upon skills learned in DANC 011 and 012. Pass/No Pass Option

DANC 014 JAZZ DANCE: ADVANCED
1 unit
Lecture 0 units; lab 1 unit
Prerequisite: DANC 013
Acceptable for credit: University of California, California State University
This advanced level course is designed to further increase the student’s skill and understanding in the varied theories, styles and techniques of the jazz idiom. Skills include increased vocabulary levels in lyrical and contemporary Jazz such as multiple turns, variety of leaps, coordinated isolations, and longer and more intricate combinations which challenge the advanced dancer. Pass/No Pass Option

DANC 021 MODERN DANCE: BEGINNING LEVEL 1
1 unit
Lecture 0 units; lab 1 unit
Acceptable for credit: University of California, California State University
This is a course for students who want an introduction to modern dance. It provides the knowledge and practice necessary for gaining skills and experience in modern dance technique. Pass/No Pass Option
DANC 022 MODERN DANCE: BEGINNING LEVEL 2
1 unit
Lecture 0 units; lab 1 unit
Prerequisite: DANC 021
Acceptable for credit: University of California, California State University
This course provides students with the opportunity to gain skills and techniques in modern dance for the beginning level 2 dance student. Emphasis is on developing techniques of contraction and release, falls and recovery, and includes a focus on quality of movement. Pass/No Pass Option

DANC 023 MODERN DANCE: INTERMEDIATE
1 unit
Lecture 0 units; lab 1 unit
Prerequisite: DANC 022
Acceptable for credit: University of California, California State University
This course provides students with the opportunity to gain modern dance skills and techniques at the intermediate level, focusing on force, space, and rhythm. Pass/No Pass Option

DANC 024 MODERN DANCE: ADVANCED
1 unit
Lecture 0 units; lab 1 unit
Prerequisite: DANC 023
Acceptable for credit: University of California, California State University
This course for advanced level modern dance students is designed to further increase the student's skill in modern dance technique. This course provides students the opportunity to gain increased insight into modern dance and further develop the body as an instrument for communication and includes movement phrases with complex arabesque, jumps and sissone. Advanced level skills include split leaps, turns and leaps into rolls that travel, axial movements, falls and recoveries into jumps, turns and inversions. Pass/No Pass Option

DANC 031 TAP FOR MUSICAL THEATRE: BEGINNING LEVEL 1
1 unit
Lecture 0 units; lab 1 unit
Acceptable for credit: California State University
This course introduces the student to the historical role of tap dance in musical theater and emphasizes the learning and refining of basic tap technique. Through exercises, choreography, and discussions, this course concentrates on technique, style, and finesse. The course involves significant physical study. The primary objective of this class is to build competence in basic tap dance technique and terminology and to develop an appreciation of the role of tap dance in musical theater. Pass/No Pass Option

DANC 032 TAP FOR MUSICAL THEATRE: BEGINNING LEVEL 2
1 unit
Lecture 0 units; lab 1 unit
Prerequisite: DANC 031
Acceptable for credit: California State University
This course focuses on learning and refining beginning to intermediate tap technique for musical theater, building upon skills learned in DANC 031. Through exercises, choreography in vaudeville, lyric and clogging styles, and discussions, this course reinforces beginning technique, style, and finesse. The course involves significant physical study. The primary objective of this class is to refine competence in beginning tap dance technique and terminology and to foster an appreciation of aesthetic principles. Pass/No Pass Option

DANC 033 TAP FOR MUSICAL THEATRE: INTERMEDIATE
1 unit
Lecture 0 units; lab 1 unit
Prerequisite: DANC 032
Acceptable for credit: California State University
This course focuses on learning and refining intermediate tap dance technique for musical theater, building upon skills learned in DANC 031 and 032. This course concentrates on three beat and four beat steps, exercises that focus on line of the body and includes an introduction to tap improvisation. Pass/No Pass Option

DANC 034 TAP FOR MUSICAL THEATRE: ADVANCED
1 unit
Lecture 0 units; lab 1 unit
Prerequisite: DANC 033
Acceptable for credit: California State University
This course focuses on learning and refining advanced tap dance technique for musical theater. Through advanced exercises, choreography, and discussions, this course concentrates on technique, style, and finesse, building on skills learned in DANC 031, 032 and 033. The primary objective of this class is to build competence in advanced tap dance technique using polyrhythmic steps and syncopation to develop a nuanced appreciation of aesthetic principles. Pass/No Pass Option

DANC 041 BALLROOM AND LATIN DANCE: BEGINNING
1 unit
Lecture 0 units; lab 1 unit
Acceptable for credit: University of California, California State University
This course focuses on beginning Ballroom and Latin dance techniques and performance. Beginning level steps and performance techniques from Tango, Waltz, Rumba, Cha-Cha, Foxtrot, Paso Doble, Night Club 2-Step, and current popular dances are covered. Individuals are encouraged to attend. A partner is not required. Pass/No Pass Option

DANC 042 BALLROOM AND LATIN DANCE: INTERMEDIATE
1 unit
Lecture 0 units; lab 1 unit
Prerequisite: DANC 041
Acceptable for credit: University of California, California State University
This course focuses on intermediate Ballroom and Latin dance techniques and performance. Beginning level steps and performance techniques from Tango, Waltz, Quick Step, International Rumba, Paso Doble, Cha-cha, Samba, Viennese Waltz, Foxtrot, Night Club 2-Step, and West Coast Swing are covered. Individuals are encouraged to attend. A partner is not required. Pass/No Pass Option

DANC 043 BALLROOM AND LATIN DANCE: ADVANCED
1 unit
Lecture 0 units; lab 1 unit
Prerequisite: DANC 042
Acceptable for credit: University of California, California State University
This course focuses on advanced ballroom and Latin dance techniques and performance. Full bronze and silver syllabus steps and performance techniques from Argentine Tango, Tango, International Waltz, American Rumba, International Cha-Cha, International Foxtrot, Samba and other currently popular dances are covered. Individuals are encouraged to attend. A partner is not required. Pass/No Pass Option

DANC 044 LINDY HOP & SWING
1 unit
Lecture 0 units; lab 1 unit
Acceptable for credit: University of California, California State University
This course focuses on steps, patterns, style, and music for Swing and Lindy Hop dances which were popular during WWI and WWII. Pass/No Pass Option

• ADVISORY is a recommended preparation, NOT a REQUIREMENT.
• This catalog is subject to change and may be incomplete. Please consult the addenda at westvalley.edu/catalog/
DANC 051A WORLD DANCE: FLAMENCO OF SPAIN, BEGINNING
1 unit
Lecture 0 units; lab 1 unit
Acceptable for credit: University of California, California State University
This course is designed to introduce the student to the movements of Flamenco Dance, its music, and its origins. This course covers the flamenco dance of Spain and its theatrical dance forms. The course also covers flamenco's folkoric influences which include the dance cultures of the East Indians, the Moors, and the Andalusians. Pass/No Pass Option

DANC 051B WORLD DANCE: FLAMENCO OF SPAIN, INTERMEDIATE
1 unit
Lecture 0 units; lab 1 unit
Prerequisite: DANC 051A
Acceptable for credit: University of California, California State University
This course provides students the opportunity to explore intermediate flamenco dance techniques, such as techniques to coordinate pasada when dancing as a couple. The course also explores the intersection of flamenco dance with poetry, music, and guitar. Previous flamenco dance experience is recommended. Pass/No Pass Option

DANC 060 STUDIO DANCE PRODUCTION
1 unit
Lecture 0 units; lab 1 unit
Acceptable for credit: University of California, California State University
This course provides dance students with an opportunity to develop the technical skills necessary to produce dance programs in a studio theater. Students are given an opportunity to choreograph dances in their area of emphasis, as well as design costumes, makeup, and lighting for a performance in a studio theater. Pass/No Pass Option

DANC 061 DANCE IN AMERICA: A CULTURAL PERSPECTIVE
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
This course examines dance as a cultural expression in the USA. The course explores a range of dance forms with a focus on their social, political and religious significance. The course also considers the creative process and expression of the contemporary choreographer. Pass/No Pass Option

DANC 061H HONORS DANCE IN AMERICA: A CULTURAL PERSPECTIVE
3 units
Lecture 3 units; lab 0 units
Acceptable for credit: University of California, California State University
Honors Dance in America: A Cultural Perspective uses the pedagogical methods common to all Honors courses: interdisciplinary, writing- intensive, collaborative, and experiential instruction. Course content makes connection through a common theme with other courses offered within the specified transdisciplinary unit. This course examines dance as a cultural expression in the USA, and explores and analyzes the influence of indigenous and world dance forms including their social, political, economic, and religious significance. The course also considers the creative process and expression of the contemporary choreographer. Pass/No Pass Option

Digital Media

THE FACULTY
Jean McIntosh
Jeff Rascov

DIVISION Cilker School of Art and Design
DEAN Andrew Chandler
DEPARTMENT CHAIR Diane Hurd
PHONE 408-741-2110
EMAIL diane.hurd@westvalley.edu
COUNSELING 408-741-4068

Degree:
A.A., Web and App Design

Certificates:
Graphic Design
Marketing/Digital Communications
Web and App Design

The Digital Media department offers programs in design, coding, and marketing of digital media. Digital Media programs focus on conceptualization, design, and development of content and publishing standards for print, web and mobile delivery. Courses are designed to develop skills for successful migration into user experience and graphic design fields. Many of the courses include project based learning that considers the needs of the user and developing appropriate messages for an intended audience. The Department of Digital Media offers an Associate Degree and a certificate in Web and App Design, and certificates in Graphic Design, and Marketing/Digital Communications.

WEB AND APP DESIGN
A.A. Degree

This program provides foundation design skills and technical planning for web and app design fields. Foundation skills in strategic thinking, planning, wireframing, and technology platforms are stressed. Other areas of focus include visual communication, interaction and user experience.

Upon completion of the degree, students will be able to:
- Plan, develop, test and market web and app products
- Upon completion of the program, students are prepared for employment in app design and development and may be prepared for employment as a:
  - Digital media assistant
  - Front end web developer or designer
  - Multimedia producer

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>DIGM 002</td>
<td>Introduction to Electronic Communication</td>
<td>3</td>
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<tr>
<td>DIGM 003</td>
<td>Introduction to Graphic Design</td>
<td>3</td>
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<tr>
<td>DIGM 004</td>
<td>Principles of Design</td>
<td>4</td>
</tr>
<tr>
<td>DIGM 020A</td>
<td>Interface Design</td>
<td>4</td>
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<tr>
<td>DIGM 021A</td>
<td>Web Development 1</td>
<td>4</td>
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<tr>
<td>DIGM 021M</td>
<td>Introduction to App Design</td>
<td>4</td>
</tr>
<tr>
<td>DIGM 086</td>
<td>Portfolio Planning and Review</td>
<td>3</td>
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</table>

Choose 5 units of the Following Electives

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>DIGM 001</td>
<td>Digital Applications Basic</td>
<td>3</td>
</tr>
<tr>
<td>DIGM 011</td>
<td>Blogs and Site Development: WordPress</td>
<td>1</td>
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<tr>
<td>DIGM 014C</td>
<td>Digital Illustration: Illustrator</td>
<td>4</td>
</tr>
<tr>
<td>DIGM 021B</td>
<td>Web Development 2</td>
<td>4</td>
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</tbody>
</table>
WEB AND APP DESIGN
Certificate of Achievement

The Web and App Design Certificate of Achievement requires the successful completion of 5 required courses and 2 elective courses (25 units).

This program provides Career Technical Education opportunities to develop occupational skills focused on graphic design development and production in the areas of: mass communications (broadcasting and print), digital media and graphic design. Students plan and create client-focused design solutions that incorporate traditional design concepts, static and not static layouts, critical ideas, and current technologies. Upon successful completion of this program, entry-level career opportunities exist in graphic design, print production, marketing, corporate communications and other emerging opportunities.

Upon completion of the program students will be able to:

• Plan and create client-focused websites that weave traditional design concepts, innovative interface ideas, and current technologies together in order to deliver and market quality web and mobile solutions.

Upon completion of the program, students are prepared for employment in app design and development and may be prepared for employment as a digital media assistant, front end web developer or designer, and multimedia producer.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>DIGM 021A</td>
<td>Application Design and Development 2</td>
<td>4</td>
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<tr>
<td>DIGM 022A</td>
<td>Digital Video 1</td>
<td>4</td>
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<tr>
<td>DIGM 025</td>
<td>Introduction to Internet Marketing</td>
<td>1</td>
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<tr>
<td>DIGM 025A</td>
<td>Advanced Internet Marketing</td>
<td>1</td>
</tr>
<tr>
<td>DIGM 025B</td>
<td>Social Media Marketing</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Major Units
To be awarded an A.A. Degree, a student must complete:
1. All major requirements.
2. Additional units to meet the college graduation requirements.

For crosswalk of new subject codes, see page 61

Recommended Course Sequence:
Fall, Year 1 (6 Units):
DIGM 002, DIGM 003
Spring, Year 1 (12 Units):
DIGM 004, DIGM 021A, Elective (Any Course)
Fall, Year 2 (5 Units):
DIGM 020A, Elective (Any Course)
Spring, Year 2 (7 Unit)
DIGM 021M, DIGM 086

GRAPHIC DESIGN
Certificate of Achievement

The Graphic Design Certificate of Achievement requires the successful completion of 7 required courses (20 units) and 8 units of electives. This program provides Career Technical Education opportunities to develop occupational skills focused on graphic design development and production in the areas of: mass communications (broadcasting and print), digital media and graphic design. Students plan and create client-focused design solutions that incorporate traditional design concepts, static and not static layouts, critical ideas, and current technologies. Upon successful completion of this program, entry-level career opportunities exist in graphic design, print production, marketing, corporate communications and other emerging opportunities.

After completing the Graphic Design Certificate of Achievement, a student will be able to:

• Plan, design, create layouts, and prepare files for commercial offset printing.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>DM 001</td>
<td>Digital Applications Basic</td>
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<tr>
<td>DM 002</td>
<td>Introduction to Electronic Communication</td>
<td>3</td>
</tr>
<tr>
<td>DM 003</td>
<td>Visual Design for New Media</td>
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<tr>
<td>DM 004</td>
<td>Principles of Design</td>
<td>4</td>
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<tr>
<td>DM 011</td>
<td>Blogs and Site Development: Word Press</td>
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<tr>
<td>DM 086</td>
<td>Portfolio Planning and Review</td>
<td>3</td>
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<tr>
<td>DM 099</td>
<td>Introduction to Typography</td>
<td>3</td>
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<tr>
<td>Electives: 8 units</td>
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<tr>
<td>DM 014C</td>
<td>Digital Illustration: Illustrator</td>
<td>4</td>
</tr>
<tr>
<td>DM 022A</td>
<td>Digital Video 1</td>
<td>4</td>
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<tr>
<td>DM 025</td>
<td>Introduction to Internet Marketing</td>
<td>1</td>
</tr>
<tr>
<td>DM 025B</td>
<td>New Media Marketing</td>
<td>1</td>
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</tbody>
</table>

Total Certificate Units
For crosswalk of new subject codes, see page 61

Recommended Course Sequence:
Fall, Year 1 (7 Units):
DIGM 001, DIGM 003, DIGM 020A, DIGM 021A or 021M
Spring, Year 1 (11 Units):
DIGM 014C, DIGM 086, DIGM 021B or 021X
**MARKETING/DIGITAL COMMUNICATIONS**
Certificate of Achievement

The Marketing/Digital Communications Certificate of Achievement requires the successful completion of 8 required courses (17 units) and 3 units of electives.

This program provides Career Technical Education opportunities in the areas of business communication, marketing, web communications, digital media production, graphic design and web/mobile design. This certificate provides a specialized focus in developing a foundation for implementing marketing ideas and strategies via web and digital platforms. Students have the opportunity to develop ideas and concepts, delineate marketing strategies, construct and present marketing approaches for web and mobile-based campaigns. Emphasis is on researching and writing strategic business and marketing plans, concept and content development, and integrating marketing solutions into digital, mobile and social media environments.

Upon completion of this program a student should be able to:

- Implement a marketing and business plan using a variety of digital and new media technologies.

Career opportunities for students with this certificate exist in marketing communications, social media marketing, web and mobile design and production, and other areas in the field of online marketing communications.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>BUSN 056</td>
<td>Marketing Principles</td>
<td>3</td>
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<tr>
<td>BUSN 078</td>
<td>Business Communication</td>
<td>3</td>
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<tr>
<td>DIGM 001</td>
<td>Digital Applications Basic</td>
<td>3</td>
</tr>
<tr>
<td>DIGM 011</td>
<td>Blogs and Site Development: WordPress</td>
<td>1</td>
</tr>
<tr>
<td>DIGM 021A</td>
<td>Web Development 1</td>
<td>4</td>
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<tr>
<td>DIGM 025</td>
<td>Introduction to Internet Marketing</td>
<td>1</td>
</tr>
<tr>
<td>DIGM 025A</td>
<td>Advanced Internet Marketing</td>
<td>1</td>
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<tr>
<td>DIGM 025B</td>
<td>Social Media Marketing</td>
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<td></td>
<td><strong>3 units of Electives</strong></td>
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<tr>
<td>DIGM 002</td>
<td>Introduction to Electronic Communication</td>
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<td>DIGM 003</td>
<td>Introduction to Graphic Design</td>
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<td>DIGM 009</td>
<td>Introduction to Typography</td>
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<td><strong>Total Certificate Units</strong></td>
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</tbody>
</table>

For crosswalk of new subject codes, see page 61

**Recommended Course Sequence:**

**Fall, Year 1 (12 Units):**

BUSN 056, DIGM 001, DIGM 011, DIGM 021A, DIGM 025

**Spring, Year 1 (8 Units):**

BUSN 078, DIGM 025A, DIGM 025B, Elective (Any Course)

**DIGM 001 THE CREATIVE SUITE FOR GRAPHIC DESIGNERS**

3 units
Lecture 2 unit; lab 1 unit

Acceptable for credit: California State University

This course provides an overview of the Adobe Creative Suite used in graphic design and the graphic arts. The course also focuses on examining and developing the technical and intuitive skills designers use to visually and psychologically convey messages to an audience.

**DIGM 002 INTRODUCTION TO ELECTRONIC COMMUNICATION**

3 units
Lecture 3 unit; lab 0 units

Acceptable for credit: University of California, California State University

This course analyzes traditional forms of mass media, and, the impact and development of new electronic communication technologies from both an historical and a cultural perspective. Special attention is given to media theories and effects, media operations and careers, and social, ethical and economic issues in the media. The course also examines the impact of media on the individual and on society as a whole.

**DIGM 003 INTRODUCTION TO GRAPHIC DESIGN**

3 units
Lecture 2 units; lab 1 unit

Acceptable for credit: California State University

This course focuses on the fundamental elements of design and introduces the software applications used in graphic design production. Topics covered include design concepts, creative process, visual construction, and the technical limitations and parameters for creating digital imagery and graphic solutions.

**DIGM 004 PRINCIPLES OF DESIGN**

4 units
Lecture 3 units; lab 1 unit

Advisory: DIGM 003 & DIGM 014C

Acceptable for credit: California State University

This course provides a studio experience that engages a series of problems and themes in basic two design dimension. Students have the opportunity to develop fundamental design and compositional skill sets in a range of media. This course also covers the critical examination and development of design principals, attributes, and elements of design, including the relationship between some production methods and materials. Pass/No Pass Option

**DIGM 011 BLOGS AND SITE DEVELOPMENT: WORDPRESS**

1 unit
Lecture 1 unit; lab 0 units

Advisory: DIGM 003

Acceptable for credit: California State University

Students have the opportunity to learn how to design, customize, and maintain blogs on the Internet. Students use the WordPress content management system (CMS) to develop custom blogs and also have the opportunity to learn how to modify templates for blog and website publishing. Plugins and third party applications are also examined and implemented into blogging solutions. Pass/No Pass Only

**DIGM 014C DIGITAL ILLUSTRATION: ILLUSTRATOR**

4 units
Lecture 3 units; lab 1 unit

Acceptable for credit: California State University

This course introduces design and vector-based illustration techniques, and focuses on conceptual approaches to digital illustration for specific design applications and media. It also explores concept development and composition techniques that pay particular attention to creative approaches to design solutions and developing individual illustration styles. Pass/No Pass Option

**DIGM 014D PHOTOSHOP FOR DESIGNERS**

3 units
Lecture 2 units; lab 1 unit

Acceptable for credit: California State University

This course is designed for students who want to learn advanced techniques using Photoshop. The course focuses on developing design solutions for a variety of media and platforms and provides advanced instruction on image editing, compositing techniques, and the creation of design specific art work. This course is intended for students who have completed DIGM 001 or students who have previous experience using Photoshop. Pass/No Pass Option

- **Prerequisites and Corequisites are Mandatory.** See page 5 for specific information.
- Courses used to meet prerequisite requirements must have been completed with a grade of C or Pass or better.
DIGM 020A INTERFACE DESIGN
4 units
Lecture 3 units; lab 1 unit
Acceptable for credit: California State University
This course focuses on creating a quality user experience and designing responsive web solutions that work well on web and mobile platforms. The course also explores what makes a site user friendly and how some common responsive design patterns work across different devices. Process and strategies for developing responsive layouts, and experimenting with major and minor breakpoints, are also covered in this course. Pass/No Pass Option

DIGM 021A WEB DEVELOPMENT 1
4 units
Lecture 3 units; lab 1 unit
Acceptable for credit: California State University
This course focuses on using the most recent version of HTML and CSS to create web sites and mobile applications. The course also covers web standards following ADA requirements and validation. Students have the opportunity to plan, code and launch web sites for web and mobile platforms and work in teams using UX and interface design techniques. Pass/No Pass Option

DIGM 021B WEB DEVELOPMENT 2
4 units
Lecture 3 units; lab 1 unit
Advisory: DIGM 021A
Acceptable for credit: California State University
This course focuses on advanced programming and markup of code for web sites and applications. The latest web programming languages are explored including: HTML, PHP, JavaScript, CSS, and JSON. Students have the opportunity to develop responsive web sites and web applications for desktop as well as mobile platforms. Additional focus is on user experience design guidelines and team development projects. Pass/No Pass Option

DIGM 021M INTRODUCTION TO APP DESIGN
4 units
Lecture 3 units; lab 1 unit
Acceptable for credit: California State University
This course focuses on the planning and the delivery of applications for mobile and tablet devices. Students have the opportunity to learn object-oriented programming and use applications to build products. Students have the opportunity to learn UX design processes and build prototype mobile products. Pass/No Pass Option

• ADVISORY is a recommended preparation, NOT a REQUIREMENT.
• This catalog is subject to change and may be incomplete. Please consult the addenda at westvalley.edu/catalog
DIGM 021X APPLICATION DESIGN AND DEVELOPMENT 2  
4 units  
Lecture 3 units; lab 1 unit  
This course focuses on planning and programming applications for phones, tablets, and augmented environments. Interface design and human computer interaction are considered in relation to developing applications. Students have the opportunity to learn the latest application design processes. Working in design teams students also have the opportunity to develop native applications for different platforms and environments. Pass/No Pass Option

DIGM 022A DIGITAL VIDEO 1  
4 units  
Lecture 3 units; lab 1 unit  
Acceptable for credit: California State University  
This course introduces the stages of video making, including narrative structure, and acquisition of video production skills in camera, lighting, sound and editing. Also covered are principles of motion graphics, and post-production delivery for webcast and new media. Pass/No Pass Option

DIGM 025 INTRODUCTION TO INTERNET MARKETING  
1 unit  
Lecture 1 unit; lab 0 units  
Acceptable for credit: California State University  
This course introduces stages of online marketing, including marketing framework, developing a brand story, and strategies for traffic acquisition and developing long term relationships with customers. Other topics covered include: search engine optimization, web analytics and using a diverse range of media (video, ads, blogs) in order to develop a compelling marketing campaign. Pass/No Pass Only

DIGM 025A ADVANCED INTERNET MARKETING  
1 unit  
Lecture 1 unit; lab 0 units  
Advisory: DIGM 025  
Acceptable for credit: California State University  
This course focuses on writing an online marketing plan. This course also covers marketing software tools and services used in developing and managing a marketing strategy. Pass/No Pass Only

DIGM 025B SOCIAL MEDIA MARKETING  
1 unit  
Lecture 1 unit; lab 0 units  
Acceptable for credit: California State University  
This course provides a critical framework for developing a comprehensive social media campaign. Additional focus is on the digital tools and software used to manage social media content. Pass/No Pass Only

DIGM 086 PORTFOLIO DEVELOPMENT  
3 units  
Lecture 2 units; lab 1 unit  
Acceptable for credit: California State University  
This course is designed for students committed to developing a portfolio for work, transfer, and other purposes. The course covers identifying professional goals, analyzing different types of portfolios, legal and ethical issues pertinent to the field, and developing a professional skills based resume. All portfolios are presented at the end of the semester.

DIGM 099 INTRODUCTION TO TYPOGRAPHY  
3 units  
Lecture 2 units; lab 1 unit  
Advisory: ARTS 031A and ARTS 033A or DIGM 004  
Acceptable for credit: University of California, California State University  
This course focuses on creating typographic solutions for designs in visual media and art. This course provides the study and demonstration of letterforms and fundamental typographic principles. Emphasis is on the vocabulary of typographic form and its relationship to message/purpose.

Disability and Educational Support Program

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The Disability & Educational Support Program assists students with disabilities to achieve their educational goals. DESP offers classes, primarily at the basic skills level, to prepare students for more advanced college level courses. Adapted physical education courses are listed in this catalog under Kinesiology and Noncredit. In addition to classes, the program provides services that include but are not limited to counseling, registration assistance, test accommodations, note takers, and class materials in alternate format. DESP is located in the Learning Services building.

Learning Outcomes
Following the completion of the DESP new student intake:
- A student will demonstrate the ability to request approved accommodations with 70% accuracy.*

Adapted Physical Education
(See Kinesiology or Noncredit)

Disability and Educational Support Program —Learning Skills Courses

LRSV 001 LEARNING STRATEGIES FOR COLLEGE AND CAREERS  
3 units  
Lecture 3 units; lab 0 units  
Acceptable for credit: University of California, California State University

In this course, students have the opportunity to learn and apply learning strategies to increase their effectiveness both in the classroom and in the workplace. The underlying principles as well as specific strategies, including setting goals, managing time and stress, listening and note taking, improving reading, test taking, memory and concentration, and learning styles are presented.

LRSV 931B LEARNING STRATEGIES FOR MATH  
1 unit  
Lecture 0 units; lab 1 unit  
This lab support course is intended to be taken concurrently with a Math course. This course is designed to meet the educational needs of students with disabilities. It focuses on the application of specific learning strategies for math. Pass/No Pass Only

**PREREQUISITES AND COREQUISITES are MANDATORY.** See page 5 for specific information.

- Courses used to meet prerequisite requirements must have been completed with a grade of C or Pass or better.
LRSV 941B EFFECTIVE SENTENCE AND PARAGRAPH WRITING
3 units
Lecture 3 units; lab 0 units
This is a basic writing course designed to meet the educational needs of students with learning disabilities. Instruction focuses on improving writing skills, including basic grammar, sentence structure, punctuation/capitalization, vocabulary, and paragraph development and organization. The course employs the writing process in development of college-level paragraphs. Pass/No Pass Only

LRSV 941C EFFECTIVE ESSAY WRITING
3 units
Lecture 3 units; lab 0 units
Prerequisite: ENGL 903 or LRSV 941B
This is a basic writing course that is designed to prepare students with disabilities for college-level writing and English 1A. It stresses the application of strategies and use of assistive technology to compensate for written language difficulties. This course addresses essay development, including thesis statements, supporting details and evidence, organization, coherence, and basic research skills. Pass/No Pass Option

LRSV 943A LEARNING STRATEGIES FOR WRITING
1 unit
Lecture 0 units; lab 1 unit
This is a lab course designed to support students enrolled in English composition courses. Designed to meet the educational needs of students with disabilities, it stresses the practical application of strategies to compensate for the disability and its effect on reading and writing. Topics covered include: learning strategies such as time management and test taking; reading comprehension strategies; evaluation of assigned essays for unity, support, coherence and sentence skills; and researching and writing research papers. Pass/No Pass Only

LRSV 944 PRE-ALGEBRA SKILLS AND STRATEGIES
3 units
Lecture 3 units; lab 0 units
This course is designed to meet the educational needs of students with disabilities. Instruction focuses on pre-algebra skills with emphasis on the critical thinking and study skills necessary for success in math. Pass/No Pass Option

LRSV 945 ELEMENTARY ALGEBRA SKILLS AND STRATEGIES
5 units
Lecture 5 units; lab 0 units
This course covers the basic operations and properties of real numbers, exponential, polynomial, rational and radical expressions. Other topics include first-degree equations and inequalities, systems of linear equations, graphing, and quadratic, rational and radical equations. Specific math learning strategies and adaptive technologies for students with disabilities are integrated throughout the course.