Programs of Study

AA = Associate in Arts Degree and AS= Associate in Science Degree (4 semesters, 60+ units)
AD-T = Associate Degree for Transfer (California State University system, 60 units)
C = Certificate of Achievement and LC = Local Certificate (1-3 semesters, short-term training)

Administration of Justice

Administration of Justice AS-T Degree

The Associate in Science in Administration of Justice for Transfer degree provides introductory and journey level course work in Administration of Justice for local, state, federal, and private enterprise levels. Student development is enhanced with philosophical, statutory, practical, and tactical experience. Students will be prepared to work in a variety of fields, including public law enforcements agencies such as municipal police, probation officers, county deputy sheriffs, correctional officers, game wardens, state parks and private security.

The Associate in Science Transfer degree is intended for students who plan to complete a bachelor's degree in Criminal Justice or a related field of study in the California State University System. Students will be prepared to study in the following areas; Administration of Justice, Law Enforcement, Correctional Administration, Social Science, and Pre-Law. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that accepts this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree.

Program student learning outcomes:

1. Students will explain the legal processes of the criminal justice system.
2. Students will list and describe the components of the criminal justice system.
3. Students will compare and contrast the theories behind effective policing and crime prevention.
4. Students will compare and contrast three theories of criminological behavior.
5. Students will write a research paper using APA format.
6. Students will write a case brief from a U.S. Supreme Court Case.

Students must meet the following requirements to qualify for an Associates for Transfer Degree (ADT):

- Complete the Local General Education, CSU General Education (CSUGE) or Intersegmental General Education Transfer Curriculum (IGETC) requirements,
- Complete a minimum of 18 additional units from the major list below,
- Complete electives to reach a total of 60-degree applicable units,
- Earn a grade of C or better in each major course,
- Maintain a minimum cumulative G.P.A. of 2.00, and
- Complete the English and math proficiency requirements with a C or better

Recommended Course Sequence: Falcon Pathway: Administration of Justice AS-T Degree

Career and employment information may be obtained through:

- O*Net, www.onetonline.org
- Labor Market, California Employment Development Department, www.labormarketinfo.edd.ca.gov

This program has 50 percent or more of the major courses available via distance education/online

Course #	*Title*	*Units*
Required Core Courses (6 Units)		
AOJ 001	Introduction to Criminal Justice	3
AOJ 020	Criminal Law	3
Plus 6 units from below:		
AOJ 003	Introduction to Corrections	3
AOJ 010	Principles & Procedures of Criminal Justice	3
AOJ 016	Human and Community Relations in Criminal Justice	3
AOJ 022	Criminal Evidence	3
AOJ 024	Criminal Investigation	3
AOJ 032	Juvenile Delinquency	3
Plus 6-7 units from below:		
Any Course listed above not already taken..		
PSYC C1000	Introduction to Psychology	3
SOC 001	Introduction to Sociology	3
STAT C1000	Introduction to Statistics	4
	Total Major Units...	18-19
	Units that may be double-counted as GE..	9
	General Education (Cal-GETC) Units...	34
	Elective Units...	16-17
	Total	**60**

Administration of Justice - Correctional Science

Correctional Science AS Degree

The Administration of Justice Correctional Science degree is designed to provide the student with option of emphasizing their program of study in the correctional science field. This program provides introductory and journey level course work in corrections for local, state, federal and private levels of correctional enterprise levels. This program enhances student development with philosophical, statutory, and practical background necessary to successfully compete in a technologically advance competitive, and rewarding career field. The following have been recognized as core course requirements by the Commission on Correctional Peace Officers Standards and Training (STC) for all new apprentices (entry-level) hired with the Department of Corrections and Department of Youth Authority after July 1, 1995.

Program Student Learning Outcomes:

1. Students will be able to write correct documents used in corrections using proper format and citations. This includes reports, memos, and legal briefs.
2. Students will be able to explain the basic rights afforded persons who are under the authority of the correctional system.
3. Students will be able to track the appeals process of a convicted offender through the state and federal court system.
4. Students will be able to explain the requirements and responsibilities of those who are employed in the correctional system.

Students must fulfill the following requirements to qualify for an Associate Degree:

- Complete the Local General Education or California General Education Transfer Curriculum (CalGETC) requirements,
- Complete a minimum of 18 additional units from the major list below,
- Complete electives to reach a total of 60-degree applicable units,
- Earn a grade of C or better in each major course,
- Maintain a minimum cumulative G.P.A. of 2.00, and
- Complete the English and math proficiency requirements with a C or better

Recommended Course Sequence: Falcon Pathway: Administration of Justice: Correctional Science AS Degree

Course #	Title	Units
Required Core Courses (18 Units)		
AOJ 003	Introduction to Corrections	3
AOJ 004	Control & Supervision of Inmates	3
AOJ 006	Correctional Interviewing and Counseling	3
AOJ 007	Legal Aspects of Corrections	3
AOJ 012	Written Criminal Justice Communications	3
AOJ 020	Criminal Law	3
Plus 3 units from the courses listed below:		
AOJ 016	Human and Community Relations in Criminal Justice	3
AOJ 024	Criminal Investigation	3
AOJ 029	Criminology	3
AOJ 032	Juvenile Delinquency	3
	Total Major Units	21
	Total Units that may be double-counted towards GE Units	0
	General Education (GE) Units	21-28
	Elective Units (As needed to reach 60 units)	18-11
	Total Degree Units	**60**

Agriculture Plant Science

Agriculture Plant Science AS-T Degree

The Agriculture Plant Science Associate for Transfer Degree (ADT) is designed to provide students a seamless transfer to the California State University system. The degree is designed to prepare students for a baccalaureate degree in Plant Science or similar major.

This program provides knowledge of the general principles of agricultural production including soil fertility and irrigation management, tractor operation, pest control and planting, growing, harvesting and marketing of crops.

This program includes coursework required for entry-level positions and foundational knowledge required for careers as pest control advisors, certified crop advisors, farm managers, irrigation consultants, fertilizer sales, and agricultural research technician. A baccalaureate degree in Plant Science will prepare students for various careers in viticulture, horticulture and agronomy.

Program student learning outcomes:

1. Students will identify the major plant vegetative and reproductive structures and explain plant growth and reproduction processes including respiration, photosynthesis, transpiration, growth, fertilization and fruit formation.
2. Students will integrate and apply basic plant and soil science principles to achieve sustainable plant growth and yield under diverse environmental conditions.
3. Students will explain historical, present and future challenges associated with local and global food production systems.
4. Students will apply scientific and mathematical reasoning and critical thinking skills to address practical challenges in agricultural production systems.

Students must meet the following requirements to qualify for an Associates for Transfer Degree (ADT):

- Complete 60 semester units or 90 quarter units that are eligible for transfer to the California State University (CSU).
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtain a minimum grade point average of 2.0.
- Minimum grade of "C" for each course in the major.
- Completion of CalGETC Requirements with a minimum grade of "C".

Recommended Course Sequence: Falcon Pathway: Agriculture: Plant Science AS-T Degree

Career and employment information may be obtained through:

- O*Net, www.onetonline.org
- Labor Market, California Employment Development Department, www.labormarketinfo.edd.ca.gov

Course #	Title	Units
Required Core Courses (18-19 Units)		
SLSCI 021 . .	Introduction to Soil Science	4
STAT C1000	Introduction to Statistics	4
CHEM 002A	Introductory Chemistry	4
or CHEM 001A	General Chemistry I	5
AGBUS 040 .	Introductory Agricultural Economics	3
or ECON 001B	Microeconomics	3
CRPSCI 001 .	Introduction to Plant Science	3
or CRPSCI 002	Plant Science Theory	3
Plus 3-5 units from the course options listed below:		
AG 014	Tractor Operations	3
CHEM 012A	Organic Chemistry for Science Majors I	3
and CHEM 012AL	Organic Chemistry Lab for Science Majors I	2
CHEM 002B	Introduction to Organic Chemistry and Biochemistry	4
Plus 0-3 units from the courses listed below:		
AET 021	Ag-Irrigation Management	3
AGBUS 024 .	Agricultural Accounting	3
	Total Major Units.	21-27
	Units that may be double-counted as GE.	10
	General Education (Cal-GETC) Units.	34
	Elective Units.	9-15
	Total	**60**

Agriculture Science Technology

Agriculture Science Technology Local Certificate

The Agriculture Science Technology Degree prepares students to work with global positioning satellite (GPS) systems, geographic information system (GIS) software, automatic tractor guidance systems, variable rate chemical input applicators, surveying equipment, and related computer software. Students will learn in hands-on, real-world applications. Completing the certificate qualifies the student to enter the professional job market in the public sector as well as the agriculture industry.

Program student learning outcomes:

1. Students will communicate technical information and work related concepts effectively through professional written and oral communication.
2. Students will describe basic agronomic concepts of soil, tillage, fertilizers, pest control, and crop production.
3. Students will solve problems using critical thinking and troubleshooting skills individually or in a team environment.
4. Students will explore new technologies and apply them to current production issues.

Recommended Course Sequence: Falcon Pathway: Agriculture Science Technology Local Cert.

Course #	Title	Units
Required Core Courses (15 Units)		
AGBUS 015	Computer Application to Agriculture	3
CRPSCI 001	Introduction to Plant Science	3
CRPSCI 006	Introduction to Precision Agriculture	3
CRPSCI 007	Advanced Precision Agriculture	3
CRPSCI 019	California Water	3
	Total	**15**

Agriculture Science Technology

Agriculture Science Technology AS Degree

The Agriculture Science and Technology program prepares students for careers in applications of science and technology in agriculture, including use of sensor technologies for irrigation control and monitoring, global positioning satellite (GPS) systems, geographic information system (GIS) software, automatic tractor guidance systems, drones, variable rate applications, surveying equipment and related computer software. Students will learn in hands-on, real-world applications.

Program student learning outcomes:

1. Students will demonstrate their ability to use agricultural technology.
2. Students will understand agronomic fundamentals (soil, plant, water relationships).
3. Students will demonstrate their ability to physically map using GPS and digitize field boundaries to create maps in GIS.
4. Students will demonstrate job readiness skills needed to obtain employment upon graduation.

Students must fulfill the following requirements to qualify for an Associate Degree:

• Complete the Local General Education or the California General Education Transfer Curriculum (Cal-GETC) requirements,
• Complete a minimum of 18 additional units from the major list below,
• Complete electives to reach a total of 60-degree applicable units,
• Earn a grade of C or better in each major course,
• Maintain a minimum cumulative G.P.A. of 2.00, and
• Complete the English and math proficiency requirements with a C or better

Recommended Course Sequence: Falcon Pathway: Agriculture Science Technology AS Degree

Course #	Title	Units
Required Core Courses (7 Units)		
AGBUS 015	Computer Application to Agriculture	3
SLSCI 021	Introduction to Soil Science	4
Plus 3 units from the courses listed below:		
CRPSCI 001	Introduction to Plant Science	3
or CRPSCI 002	Plant Science Theory	3
Plus 15 units from the courses listed below:		
AET 015	CAD for Agriculture	2
AET 021	Ag-Irrigation Management	3
AG 014	Tractor Operations	3
CRPSCI 006	Introduction to Precision Agriculture	3
CRPSCI 008	Applications of Geospatial Technology	3
CRPSCI 017	Control and Sensor Systems in Ag	3
CRPSCI 018	Precision Ag Software	3
CRPSCI 019	California Water	3
CRPSCI 021	Orchard Production	3
CRPSCI 023	Row Crop Production	3
CRPSCI 032	Weeds and Poisonous Plants	3
CRPSCI 036	Fertilizers and Soil Amendments	3
CRPSCI 044	Economic Entomology	3
CRPSCI 045	California Pest Control Laws and Regulations	2
CRPSCI 046	Integrated Pest Management	3
IMT 060	Industrial Core	3
	Total Major Units	25
	Total Units that may be double-counted towards GE Units	4
	General Education (GE) Units	21-28
	Elective Units (As needed to reach 60 units)	18-11
	Total Degree Units	**60**

Agriculture Systems Fundamentals - Non Credit

Upon successful completion of the Agriculture Systems Fundamentals certificate program, students will be prepared with foundational knowledge and skills needed for employment in the agricultural workforce. The participants will be able to explain the principles of agriculture, agriculture technologies, and agriculture equipment, read and create agricultural documents, identify safety equipment, safety processes and procedures, and safely work with basic agriculture equipment and tools.

Core Skills

1. Digital Literacy
2. Basic Equipment Operation
3. Basic Equipment Configuration
4. Basic Equipment Troubleshooting
5. General Agriculture Systems Fundamentals
6. Crop Production Systems
7. Tool Operation
8. Applied Technical Reading
9. Employability Skills
10. Animal Production Systems
11. Food Safety
12. Basic Safety
13. Industry Communication
14. Applied Technical Writing

To assess mastery of these core skills, we also defined 59 performance indicators to outline what students need to demonstrate for each skill. While these core skills might initially appear advanced, it's crucial to note that their evaluation will occur at a foundational level. These carefully chosen skills, aligned with industry demands, are designed to equip students with an understanding of the entire agricultural value chain. This proficiency allows them to seamlessly navigate various scenarios and adapt to the evolving industry landscape.

Program Student Learning Outcomes

1. Justify foundational agricultural concepts.
2. Select, effectively utilize, and identify faults with technologies for agricultural processes.
3. Connect employability skills, quantitative reasoning, and effective communication within an agricultural context.

Recommended Course Sequence: Falcon Pathway: Agriculture Systems Fundamentals Noncredit Cert.

Program Requirements

Course #	Title	Units
Required Core Courses		
NC 191	Agriculture Technical Literacy	N/A
NC 192	Agricultural Systems	N/A
NC 193	Agricultural Safety	N/A
NC 194	Equipment Operation, Configuration, & Troubleshooting	N/A
NC 195	Workplace Effectiveness	N/A
	Total	**216 HOURS**

Art

Studio Arts AA-T Degree

The Associate in Art in Studio Arts for Transfer Degree is designed to provide students a seamless transfer to the California State University system. The degree is designed to prepare students for a baccalaureate degree in Studio Arts or similar major.

The Art program is dedicated to providing the highest quality of lower division art courses for students who are majoring in art as well as all students who want to explore visual artistic expression through the creation of art and the study of art history. The Art program offers a complete selection of lower division courses in the Fine Arts. Students planning to continue their studies at a four-year college typically include courses in Art History, Design, Drawing and other studio art courses. This provides students with a richer understanding of their world and themselves. Students in the art program work with experienced instructors who assist them in the development of a sound artistic foundation.

Program student learning outcomes:

1. Students will create a visually balanced artwork using the art elements and design principles.
2. Students will produce sustained and developed artworks for inclusion in an artistic portfolio.
3. Students will create artworks demonstrating proficiency with basic color theory and color mixing.
4. Students will write a personal and individual critique and artist statement describing her/his series of artworks.
5. Students will describe visual art concepts and terminology relating to art history and art disciplines, media, materials, and techniques.
6. Students will analyze, critique, and respond orally and in writing to a variety of artistic movements throughout European and non-European history.

Students must meet the following requirements to qualify for an Associates for Transfer Degree (ADT):

- Complete 60 semester units or 90 quarter units that are eligible for transfer to the California State University (CSU).
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtain a minimum grade point average of 2.0.
- Minimum grade of "C" for each course in the major.
- Completion of CalGETC Requirements with a minimum grade of "C".

Recommended Course Sequence: Studio Arts AA-T Degree

Course #	Title	Units
Required Core Courses (15 Units)		
ART 002	Two-Dimensional Design	3
ART 003	Three-Dimensional Design Fundamentals	3
ART 005A	Basic Drawing	3
ART 016A	Survey of Western Art: Pre-History to Proto-Renaissance	3
ART 016B	Survey of Western Art: Renaissance to The Present	3
Plus 9 units from the courses listed below:		
ART 005B	Intermediate Drawing	3
ART 013A	Beginning Ceramics	3
ART 015A	Beginning Painting	3
ART 008	Color Theory	3
	Total Major Units	24
	Units that may be double-counted as GE	3
	General Education (Cal-GETC) Units	34
	Elective Units	5
	Total Degree Units	**60**

Biology

Biology AS-T Degree

The Associate of Science in Biology for Transfer Degree program is designed to provide entry-level skills and knowledge for a student transferring to a 4-year institution with a major in Biology. The Biology major requires 31 units in Biology and related fields. Course work in this program will provide a foundation in subjects students will study as Biology majors in 4-year colleges or university programs. The Associate of Science in Biology for Transfer degree provides students with a comprehensive knowledge of the scientific study of living organisms. The degree provides students with an understanding of the major theoretical perspectives in biology, knowledge about and the ability to use biological concepts in the analysis of scientific phenomena, opportunities to develop critical thinking as well as written and oral communication skills utilizing a biological perspective, an understanding of chemical and physical concepts relevant to living organisms, and qualitative and quantitative research skills.

Program student learning outcomes:

1. Students will make informed judgments based upon scientific principles and assessment of data.
2. Students will apply the scientific method and propose new questions about the topic based upon the results.
3. Students will explain the symbiotic impacts of humans and the environment based upon an integrative approach.
4. Students will apply the metric system using standard laboratory equipment, assess the validity of the data, and interpret it correctly.
5. Students will demonstrate comprehension of biological principles by working in teams to manage time and tasks, sharing results and analyses, and arriving at a final collaborative product.

Students must meet the following requirements to qualify for an Associates for Transfer Degree (ADT):

- Complete 60 semester units or 90 quarter units that are eligible for transfer to the California State University (CSU).
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtain a minimum grade point average of 2.0.
- Minimum grade of "C" for each course in the major.
- Completion of CalGETC Requirements with a minimum grade of "C".

Recommended Course Sequence: Falcon Pathway: Biology AS-T Degree

Course #	Title	Units
Required Core Courses (23 Units)		
BIO 001A . . .	Cell and Molecular Biology	4
BIO 001B . . .	Organismal Biology	4
CHEM 001A	General Chemistry I	5
CHEM 001B	General Chemistry II	5
MATH 001A	Introduction to Calculus	5
Plus 8 Units from the course options below:		
Option 1:		
PHYSICS 002A	Mechanics and Thermodynamics	4
and PHYSICS 002B	Electricity, Magnetism, Optics and Modern Physics	4
Option 2:		
PHYSICS 004A	Classical Mechanics	4
and PHYSICS 004B	Electricity, Magnetism, and Waves	4
	Total Major Units.	31
	Units that may be double-counted as GE.	10
	General Education (Cal-GETC) Units.	34
	Elective Units.	5
	Total	**60**

Business - Administration 2.0

Business Administration 2.0 AS-T

The Associate in Science in Business Administration 2.0 for Transfer Degree is designed to provide students a seamless transfer to the California State University system. The degree is designed to prepare students for a baccalaureate degree in Business Administration or similar major.

Students will gain a broad knowledge in the foundation of the business field including accounting, quantitative analysis, economics, and contract law. The program includes coursework that is essential for entry-level positions and enhances the knowledge base of those who are seeking career advancement. A baccalaureate degree will prepare students to work with a variety of occupations including account executive, analyst, bank employee, buyer, clerk, data-entry specialist, government service, insurance representative, manager, office assistant, public administration, and sales.

Program student learning outcomes:

1. Students will apply accounting and mathematical concepts and principles in making decisions about business operations.
2. Students will determine the monthly payment on an amortized loan over a given interval of time at a specified interest rate.
3. Students will assess the relationships and inter-dependencies of economic, social, legal, and global environments in which businesses operate.
4. Students will identify the laws affecting sole proprietorships, partnerships, and corporations.
5. Students will identify and explain business organizations' major functional areas, including management, marketing, finance, and accounting.

Students must meet the following requirements to qualify for an Associates for Transfer Degree (ADT):

- Complete 60 semester units or 90 quarter units that are eligible for transfer to the California State University (CSU).
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtain a minimum grade point average of 2.0.
- Minimum grade of "C" for each course in the major.
- Completion of CalGETC Requirements with a minimum grade of "C".

Recommended Course Sequence: Falcon Pathway: Business Administration 2.0 AS-T Degree

Career and employment information may be obtained through:

- O*Net, www.onetonline.org
- Labor Market, California Employment Development Department, www.labormarketinfo.edd.ca.gov

This program has 50 percent or more of the major courses available via distance education/online

Course #	Title	Units
Required Core Courses (28 Units)		
BUS 001A	Beginning Principles of Accounting	4
BUS 001B	Elementary Principles of Accounting	4
BUS 018	Business Law	4
BUS 020	Introduction to Business	3
ECON 001A	Macroeconomics	3
ECON 001B	Microeconomics	3
MATH 039	Quantitative Analysis	3
STAT C1000	Introduction to Statistics	4
	Total Major Units	28
	Units that may be double-counted as GE	6
	General Education (Cal-GETC) Units	34
	Elective Units	4
	Total	**60**

Business - Bookkeeping

Business Bookkeeping Certificate of Achievement

The Business Bookkeeping Certificate provides occupational training and preparation for entry-level accounting clerk and bookkeeping positions. The program includes basic accounting concepts, business principles, and technology applications in the workplace.

Program student learning outcomes:

1. Students will create professional business documents using word processing software.
2. Students will analyze and record accounting transactions manually and using a computerized accounting system.
3. Students will prepare financial statements manually and using a computerized accounting system.
4. Students will solve basic business math problems.

Recommended Course Sequence: Falcon Pathway: Business: Bookkeeping Cert.

For Gainful Employment information please visit:

https://westhillscollege.com/coalinga/degrees-and-certificates/gainful-employment/

Course #	*Title*	*Units*
Required Core Courses (24 Units)		
BUS 055	Bookkeeping	3
BUS 013A . .	Word for Windows I	1.5
BUS 013B . .	Word for Windows II	1.5
BUS 020	Introduction to Business	3
BUS 024	Business Mathematics	3
BUS 028	Business Communication	3
BUS 074	Computerized Accounting	3
CIS 007	Computer Concepts	3
CIS 034	Introduction to Spreadsheets	3
	Total	**24**

Business - Management

Business - Management Option Certificate of Achievement

The Business Management Certificate of Achievement provides an overview of the various disciplines in business such as management, marketing, accounting, and finance. The degree provides a strong foundation for entry into a variety of business fields. The coursework is essential for entry-level positions while enhancing the knowledge base of those who are seeking career progression.

Program student learning outcomes:

1. Students will identify and explain major functional areas of business organizations including management, marketing, finance, and accounting.
2. Students will identify the functions of management and apply them in business situations.
3. Students will apply commonly used computer application programs to create relevant business documents.
4. Students will effectively communicate both verbally and in writing in various business settings.
5. Students will apply business mathematics in order to analyze data and solve business problems.

Recommended Course Sequence: Falcon Pathway: Business: Business Management Cert.

For Gainful Employment information please visit:

https://westhillscollege.com/coalinga/degrees-and-certificates/gainful-employment/

Career and employment information may be obtained through:

- O*Net, www.onetonline.org
- Labor Market, California Employment Development Department, www.labormarketinfo.edd.ca.gov

Course #	Title	Units
Required Core Courses		
BUS 001A	Beginning Principles of Accounting	4
or BUS 055	Bookkeeping	3
BUS 020	Introduction to Business	3
BUS 024	Business Mathematics	3
BUS 028	Business Communication	3
CIS 007	Computer Concepts	3
	Total Core Courses	**15 - 16**

Choose one of the following options:

Course #	Title	Units
Option 1: Management Required Courses		
BUS 018	Business Law	4
BUS 032	Small Business Management	3
BUS 035	Human Resources Management	3
	Total Management Option	**10**

Course #	Title	Units
Option 2: Bookkeeping Required Courses		
BUS 013A	Word for Windows I	1.5
BUS 013B	Word for Windows II	1.5
BUS 074	Computerized Accounting	3
CIS 034	Introduction to Spreadsheets	3
	Total Bookkeeping Option	**9**
Course #	Title	Units
	Total Certificate Units	**24-26**

Business - Management

Business - Management Option AS Degree

The Business Management Degree provides an overview of the various disciplines in business such as management, marketing, accounting, and finance. The degree provides a strong foundation for entry into a variety of business fields. The coursework is essential for entry-level positions while enhancing the knowledge base of those who are seeking career progression.

Program student learning outcomes:

1. Students will identify and explain major functional areas of business organizations including management, marketing, finance, and accounting.
2. Students will identify the functions of management and apply them in business situations.
3. Students will apply commonly used computer application programs to create relevant business documents.
4. Students will effectively communicate both verbally and in writing in various business settings.
5. Students will apply business mathematics in order to analyze data and solve business problems.

Students must fulfill the following requirements to qualify for an Associate Degree:

- Complete the Local General Education or the California General Education Transfer Curriculum (Cal-GETC) requirements,
- Complete a minimum of 18 additional units from the major list below,
- Complete electives to reach a total of 60-degree applicable units,
- Earn a grade of C or better in each major course,
- Maintain a minimum cumulative G.P.A. of 2.00, and
- Complete the English and math proficiency requirements with a C or better

Recommended Course Sequence: Falcon Pathway: Business: Business Management AS Degree

For Gainful Employment information please visit:

https://westhillscollege.com/coalinga/degrees-and-certificates/gainful-employment/

Course #	Title	Units
Required Core Courses		
BUS 001A . .	Beginning Principles of Accounting	4
or BUS 055 .	Bookkeeping	3
BUS 020	Introduction to Business	3
BUS 024	Business Mathematics	3
BUS 028	Business Communication	3
CIS 007	Computer Concepts	3
	Total Core Courses	**15 - 16**

Choose one of the following options:

Course #	Title	Units
Option 1: Management Required Courses		
BUS 018	Business Law	4
BUS 032	Small Business Management	3
BUS 035	Human Resources Management	3
	Total Management Option	**10**

Course #	Title	Units
Option 2: Bookkeeping Required Courses		
BUS 013A . .	Word for Windows I	1.5
BUS 013B . .	Word for Windows II	1.5
BUS 074	Computerized Accounting	3
CIS 034	Introduction to Spreadsheets	3
	Total Bookkeeping Option	**9**

Course #	*Title*	*Units*
	Total Major Units.	24-26
	Total Units that may be double-counted towards GE Units.	0
	General Education (GE) Units.	21-28
	Elective Units (As needed to reach 60 units).	15-6
	Total Degree Units	**60**

Business - Retail Business Management

Business - Retail Business Management Certificate of Achievement

The Retail Business Management Certificate of Achievement provides an overview of the various disciplines in business such as management, marketing, accounting, and finance. The degree provides a training and education for those wishing to own or manage a retail business. The various elements involved in starting and operating a small business are covered.

Program student learning outcomes:

1. Students will identify and explain major functional areas of business organizations including management, marketing, finance, and accounting.
2. Students will apply commonly used computer application programs to create relevant business documents.
3. Students will effectively communicate both verbally and in writing in various business settings.
4. Students will research and compose a business plan that can be used for planning as well as financing.

Recommended Course Sequence: Falcon Pathway: Business: Retail Business Managementat Cert,

For Gainful Employment information please visit:

https://westhillscollege.com/coalinga/degrees-and-certificates/gainful-employment/

Career and employment information may be obtained through:

- O*Net, www.onetonline.org
- Labor Market, California Employment Development Department, www.labormarketinfo.edd.ca.gov

Course #	Title	Units
Required Core Courses (22-23 Units)		
BUS 001A	Beginning Principles of Accounting	4
or BUS 055	Bookkeeping	3
BUS 018	Business Law	4
BUS 020	Introduction to Business	3
BUS 028	Business Communication	3
BUS 032	Small Business Management	3
BUS 035	Human Resources Management	3
CIS 007	Computer Concepts	3
	Total	**22-23**

Chemistry

UCTP Chemistry AS-T (AS-UCTP) Degree

The Associate in Science in Chemistry for UC Transfer (AS-UCT) Degree provides a lower-division science foundation for those interested in pursuing a chemistry major or related fields of study and is intended for students transferring into a baccalaureate degree program in Chemistry or a related field at the University of California system. The AS-UCT in Chemistry provides essential academic preparation for entry into careers in research, teaching, scientific consulting, medicine, chemical engineering, pharmacy, material science, forensic science, government agencies, and chemical and biotechnology industries. Students who complete the AS-UCT in Chemistry are guaranteed admission to the UC system but not to a particular campus or major.

Program student learning outcomes:

1. Students will recognize and apply the principles of atomic theory and molecular structure to predict chemical properties and chemical reactivity.
2. Students will apply analytical methodologies with quantitative and qualitative reasoning when approaching a problem in Chemistry.
3. Students will demonstrate competence in laboratory techniques, chemical experimental methods, and laboratory safety.
4. Students will collect, record, organize, and analyze experimental data and recognize the limitations of measurements.
5. Students will clearly communicate the results of scientific work in oral, written, and/or electronic formats to both scientists and the public at large.

Students must meet the following requirements to qualify for an Associates for Transfer Degree (ADT):

- Complete at least 70 semester units that are eligible for transfer to the University of California (UC).
- Obtain a minimum grade point average of 2.0 in transferrable courses (note that a higher GPA may be required at some institutions).
- Minimum grade of "C" or better for each course in the major, and
- Certified completion of the IGETC for STEM requirements.

A minimum 3.5 GPA in the major will guarantee admission into the University of California System in a Chemistry Program. Students should consult with a counselor or academic advisor to develop an educational plan and verify university admission and transfer requirements.

Recommended Course Sequence: UCTP Chemistry AS-T Degree

Course #	Title	Units
Required Core Courses (50 Units)		
CHEM 001A	General Chemistry I	5
CHEM 001B	General Chemistry II	5
CHEM 012A	Organic Chemistry for Science Majors I	3
CHEM 012B	Organic Chemistry for Science Majors II	3
CHEM 012AL	Organic Chemistry Lab for Science Majors I	2
CHEM 012BL	Organic Chemistry Lab for Science Majors II	2
MATH 001A	Introduction to Calculus	5
MATH 001B	Calculus With Applications	5
MATH 002A	Multivariate Calculus	4
MATH 002B	Differential Equations	4
PHYSICS 004A	Classical Mechanics	4
PHYSICS 004B	Electricity, Magnetism, and Waves	4
PHYSICS 004C	Thermodynamics, Optics, and Modern Physics	4
	Total Major Units	50
	GE IGETC units	20
	Transferable IGETC Elective Units	0
	Total Degree Units	**70**

Child Development - Administrative

Child Development - Administrative Local Certificate

The State of California, Commission for Teacher Preparation and Licensing, is responsible for issuing Child Development Permits to eligible students seeking employment in State funded early childhood educational programs or other selective children's programs. The student with the intention of securing a Child Development Permit must follow mandated course requirements as outlined by the Child Development Permit Matrix handout. To secure a copy of the Child Development Permit Matrix contact a Child Development instructor or the coordinator of the Child Development Training Consortium. There is a monetary fee paid to the Commission for Teacher Preparation and Licensing when securing the Child Development permit and as required, all course work must be passed with a grade of C or better.

The Child Development Teacher level certificate prepares the student to earn state certification as a Master Teacher, Site Supervisor, or Program Director. The student may apply for as many certificates as they wish after fulfilling the requirements of each certificate. These certificates meet the academic requirements according to Title 22 and may help the student be employed in the field of early childhood education. There are no monetary fees for these certificates.

The course work in this certificate helps to partially qualify a student to become a director/supervisor/administrator of a State, Federal, nonprofit, or privately owned children's program. Courses within this certificate meet State mandated requirements. CD 014A, 014B and 022 are mandated courses for the site supervisor and program director requirements for the Child Development Permit.

It is strongly recommended students not take these courses until they have some experience working with children and adults and have completed at least 12.0 units of child development courses, which include the State mandated classes.

Program student learning outcomes:

1. Students will implement knowledge of building successful relations within the childcare program.
2. Students will integrate knowledge of successful budgeting in child care programs.

Recommended Course Sequence: Child Development Administrative Local Cert.

Course #	*Title*	*Units*
Required Core Courses (8 Units)		
CD 014A . . .	Administration and Supervision of Children's Programs	3
CD 014B . . .	Administration and Supervision of Children's Programs Fieldwork	3
CD 022	Supervising Adults Working in Children's Programs	2
Plus 4 units from the courses listed below:		
BUS 020	Introduction to Business	3
BUS 032	Small Business Management	3
BUS 055	Bookkeeping	3
CIS 002	Internet Programming HTML/CSS	3
CIS 007	Computer Concepts	3
CIS 034	Introduction to Spreadsheets	3
	Total	**12**

Child Development - Assistant Teacher

Child Development - Assistant Teacher Local Certificate

The State of California, Commission for Teacher Preparation and Licensing, is responsible for issuing Child Development Permits to eligible students seeking employment in State funded early childhood educational programs or other selective children's programs. The student with the intention of securing a Child Development Permit must follow mandated course requirements as outlined by the Child Development Permit Matrix handout. To secure a copy of the Child Development Permit Matrix contact a Child Development instructor or the coordinator of the Child Development Training Consortium. There is a monetary fee paid to the Commission for Teacher Preparation and Licensing when securing the Child Development permit and as required, all course work must be passed with a grade of C or better.

The Child Development Teacher level certificate prepares the student to earn state certification as a Master Teacher, Site Supervisor, or Program Director. The student may apply for as many certificates as they wish after fulfilling the requirements of each certificate. These certificates meet the academic requirements according to Title 22 and may help the student be employed in the field of early childhood education. There are no monetary fees for these certificates.

The student will be eligible for this certificate by completing 6 units from the following child development courses and obtaining a "C" or better in the outcome of the courses. It is recommended the student start taking English 051A or English 001A before these courses or at the same time.

Program student learning outcomes:

1. Students will apply the importance of play while working with children.
2. Students will implement health and safety strategies while working with children.

Recommended Course Sequence: Child Development Assistant Teacher Local Cert.

Course #	Title	Units
Required Core Courses (6 Units)		
CD 002	Teaching in a Diverse Society	3
CD 003	Observation and Assessment	3
CD 004	Parenting	3
CD 005	Child Development	3
CD 010	Child, Family and Society	3
CD 012A	Principles & Practices of Early Childhood Education	3
CD 012B	Principles and Practices of Early Childhood Education Field Work	3
CD 015	Literature and Language Arts for Young Children	3
CD 016	Introduction to Curriculum	3
CD 017A	Sex Education for Parents and Teachers	1
CD 017B	Child Abuse Recognition and Prevention	1
CD 017C	Single Parenting	1
CD 018	Health, Safety and Nutrition	3
CD 021	Infant and Toddler Caregiving	3
CD 023	Domestic Violence Recognition and Prevention	1
	Total	**6**

Child Development - Associate Teacher

Child Development - Associate Teacher Local Certificate

The State of California, Commission for Teacher Preparation and Licensing, is responsible for issuing Child Development Permits to eligible students seeking employment in State funded early childhood educational programs or other selective children's programs. The student with the intention of securing a Child Development Permit must follow mandated course requirements as outlined by the Child Development Permit Matrix handout. To secure a copy of the Child Development Permit Matrix contact a Child Development instructor or the coordinator of the Child Development Training Consortium. There is a monetary fee paid to the Commission for Teacher Preparation and Licensing when securing the Child Development permit and as required, all course work must be passed with a grade of C or better.

The Child Development Teacher level certificate prepares the student to earn state certification as a Master Teacher, Site Supervisor, or Program Director. The student may apply for as many certificates as they wish after fulfilling the requirements of each certificate. These certificates meet the academic requirements according to Title 22 and may help the student be employed in the field of early childhood education. There are no monetary fees for these certificates.

The student will be eligible for this certificate by completing 12 units of child development course work, including the State mandated core classes. All of the courses must be passed with a "C" or better.

Program student learning outcomes:

1. Students will implement an understanding of how the childcare classroom schedule operates.
2. Students will apply knowledge of how to create and implement lesson plans.

Recommended Course Sequence: Child Development Associate Teacher Local Cert.

Course #	Title	Units
Required Core Courses (9 Units)		
* CD 005	Child Development	3
* CD 010	Child, Family and Society	3
* CD 012A	Principles & Practices of Early Childhood Education	3
Plus 3 units from the courses listed below:		
CD 002	Teaching in a Diverse Society	3
CD 003	Observation and Assessment	3
CD 004	Parenting	3
CD 012B	Principles and Practices of Early Childhood Education Field Work	3
CD 015	Literature and Language Arts for Young Children	3
CD 016	Introduction to Curriculum	3
CD 017A	Sex Education for Parents and Teachers	1
CD 017B	Child Abuse Recognition and Prevention	1
CD 017C	Single Parenting	1
CD 018	Health, Safety and Nutrition	3
CD 021	Infant and Toddler Caregiving	3
CD 023	Domestic Violence Recognition and Prevention	1
	Total	**12**

As marked, these are State mandated core courses which are required in order to teach in California and as mandated for the Child Development Permit.

Child Development - School-Age

Child Development - School-Age Local Certificate

The State of California, Commission for Teacher Preparation and Licensing, is responsible for issuing Child Development Permits to eligible students seeking employment in State funded early childhood educational programs or other selective children's programs. The student with the intention of securing a Child Development Permit must follow mandated course requirements as outlined by the Child Development Permit Matrix handout. To secure a copy of the Child Development Permit Matrix contact a Child Development instructor or the coordinator of the Child Development Training Consortium. There is a monetary fee paid to the Commission for Teacher Preparation and Licensing when securing the Child Development permit and as required, all course work must be passed with a grade of C or better.

The Child Development Teacher level certificate prepares the student to earn state certification as a Master Teacher, Site Supervisor, or Program Director. The student may apply for as many certificates as they wish after fulfilling the requirements of each certificate. These certificates meet the academic requirements according to Title 22 and may help the student be employed in the field of early childhood education. There are no monetary fees for these certificates.

Program student learning outcomes:

1. Students will apply developmentally appropriate art and craft ideas.
2. Students will integrate a basic understanding of regular daily routines for school-age children.

Recommended Course Sequence: Child Development School-Age Child Local Cert.

Course #	Title	Units
Required Core Courses (12 Units)		
CD 018	Health, Safety and Nutrition	3
CD 024	School-Age Development	3
CD 025	School-Age Curriculum	3
CD 026A	Foundation of School-Age Child Care	1
CD 026B	Quality School-Age Care	1
CD 026C	School-Age Sports and Activities	1
	Total	**12**

Child Development - Teacher

Child Development - Teacher Certificate of Achievement

The State of California, Commission for Teacher Preparation and Licensing, is responsible for issuing Child Development Permits to eligible students seeking employment in State funded early childhood educational programs or other selective children's programs. The student with the intention of securing a Child Development Permit must follow mandated course requirements as outlined by the Child Development Permit Matrix handout. To secure a copy of the Child Development Permit Matrix contact a Child Development instructor or the coordinator of the Child Development Training Consortium. There is a monetary fee paid to the Commission for Teacher Preparation and Licensing when securing the Child Development permit and as required, all course work must be passed with a grade of C or better.

The Child Development Teacher level certificate prepares the student to earn state certification as a Master Teacher, Site Supervisor, or Program Director. The student may apply for as many certificates as they wish after fulfilling the requirements of each certificate. These certificates meet the academic requirements according to Title 22 and may help the student be employed in the field of early childhood education. There are no monetary fees for these certificates.

The student will be eligible for the Child Development Teacher certificate by completing 30 units of child development course work, including the core courses.

Program student learning outcomes:

1. Students will implement an understanding of how the childcare classroom schedule operates.
2. Students will apply knowledge of how to create and implement lesson plans.

For Gainful Employment information please visit:

https://westhillscollege.com/coalinga/degrees-and-certificates/gainful-employment/

Recommended Course Sequence: Child Development Teacher Cert.

Course #	Title	Units
Required Core Courses (24 Units)		
CD 002	Teaching in a Diverse Society	3
CD 003	Observation and Assessment	3
CD 005	Child Development	3
CD 010	Child, Family and Society	3
CD 012A	Principles & Practices of Early Childhood Education	3
CD 012B	Principles and Practices of Early Childhood Education Field Work	3
CD 016	Introduction to Curriculum	3
CD 018	Health, Safety and Nutrition	3
Plus 6 units from the courses listed below:		
CD 004	Parenting	3
CD 014A	Administration and Supervision of Children's Programs	3
CD 014B	Administration and Supervision of Children's Programs Fieldwork	3
CD 017A	Sex Education for Parents and Teachers	1
CD 017B	Child Abuse Recognition and Prevention	1
CD 017C	Single Parenting	1
CD 022	Supervising Adults Working in Children's Programs	2
	Total	**30**

Child and Adolescent Development

Child and Adolescent Development AA-T

The Associate in Arts in Child and Adolescent Development for transfer degree is designed to provide students a seamless transfer to the California State University system. The degree is designed to prepare students for a baccalaureate degree in Child Development.

The Coalinga College Child Development Program offers a comprehensive background in the field of child adolescent growth and development. Program emphasis includes information directed at working with culturally diverse families, working with children ages 10 – 18 years in an elementary school setting, and creating and teaching developmentally appropriate environments for adolescence. Students will be offered information and skills for future employment in primary and secondary school systems.

This program is intended for students planning to transfer to a California State University to pursue elementary teaching, social services, and counseling.

Program student learning outcomes:

1. Students will implement knowledge of the characteristics of children, birth through adolescence, and the multiple influences on their development as related to the high-quality care of children.
2. Students will apply the theories and concepts related to children, birth through adolescence, in the learning environment.

Students must meet the following requirements to qualify for an Associates for Transfer Degree (ADT):

- Complete 60 semester units or 90 quarter units that are eligible for transfer to the California State University (CSU).
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtain a minimum grade point average of 2.0.
- Minimum grade of "C" for each course in the major.
- Completion of CalGETC Requirements with a minimum grade of "C".

Recommended Course Sequence: Falcon Pathway: Child and Adolescent Development AA-T Degree

Career and employment information may be obtained through:

- O*Net, www.onetonline.org
- Labor Market, California Employment Development Department, www.labormarketinfo.edd.ca.gov

Course #	Title	Units
Required Core Courses (10 Units)		
CD 005	Child Development	3
PSYC C1000	Introduction to Psychology	3
STAT C1000	Introduction to Statistics	4
Plus 9 units from the courses listed below:		
BIO 010	Fundamentals of Biology	3
or BIO 015	Biology for Education	3
CD 010	Child, Family and Society	3
or SOC 001	Introduction to Sociology	3
or SOC 003	Marriage and Family Relations	3
PSYCH 003	Developmental Psychology	3
CD 002	Teaching in a Diverse Society	3
CD 012A	Principles & Practices of Early Childhood Education	3
	Total Major Units	19
	Units that may be double-counted as GE	12
	General Education (Cal-GETC) Units	34
	Elective Units	19
	Total Degree Units	**60**

Communication Studies 2.0

Communication Studies 2.0 AA-T Degree

The Associate of Art for Transfer in Communication Studies 2.0 is designed to provide students a seamless transfer to the California State University system. The degree is designed to prepare students for a baccalaureate degree in Communication Studies or similar major.

The AA-T in Communication Studies 2.0 offers broad-based preparation in effective oral and written communication, presentation, and debate as well as a foundation in group dynamics and interpersonal relationships. The degree is designed to provide entry-level skills and knowledge for those students who simply want to improve their marketability with potential employers. The degree prepares students in the main skills employers look for in potential employees: the ability to effectively communicate both orally and in writing and to effectively work in groups and/or teams.

Program student learning outcomes:

1. Students will speak in an understandable and organized fashion to explain their ideas, concepts and express their feelings.
2. Students will listen actively and respectfully to analyze the substance of others' comments and materials.
3. Students will utilize different forms of research materials.
4. Students will demonstrate effective argumentation by formulating written and/or oral arguments that are free of errors in reasoning.
5. Students will perform a variety of verbal and nonverbal skills to bring literature to life and heighten the effectiveness of the performer's message.

Students must meet the following requirements to qualify for an Associates for Transfer Degree (ADT):

- Complete 60 semester units or 90 quarter units that are eligible for transfer to the California State University (CSU).
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtain a minimum grade point average of 2.0.
- Minimum grade of "C" for each course in the major.
- Completion of CalGETC Requirements with a minimum grade of "C".

Recommended Course Sequence: Communication Studies 2.0 AA-T Degree

Course #	Title	Units
Required Core Courses (6 Units)		
COMM C1000	Introduction to Public Speaking	3
COM 005	Interpersonal Communication	3
Plus 9 units from the courses listed below:		
COM 002	Oral Interpretation of Literature	3
COM 003	Argumentation and Debate	3
COM 004	Small Group Dynamics and Presentation	3
COM 006	Intercultural Communication	3
Plus 3 units from the courses listed below:		
Any Course listed above not already taken.		
ENG 002	Introduction to Literature	3
OR ENGL C1001	Critical Thinking and Writing	3
PSYC C1000	Introduction to Psychology	3
SOC 001	Introduction to Sociology	3
	Total Major Units	18
	Units that may be double-counted as GE	9
	General Education (Cal-GETC) Units	34
	Elective Units	17
	Total Degree Units	**60**

Computer Information Systems (CIS) - Microcomputer Applications Specialist

Computer Information Systems (CIS) - Microcomputer Applications Specialist Certificate of Achievement

The Computer Information Systems Program teaches concepts, procedures and terminology, as well as the skills and applications necessary to operate computers.

Program student learning outcomes:

1. Students will filter records in an access table.
2. Students will change a Theme or Quick Style and apply it in a document.
3. Students will compose business correspondence using correct format responding to a case study.

For Gainful Employment information please visit:

https://westhillscollege.com/coalinga/degrees-and-certificates/gainful-employment/

Career and employment information may be obtained through:

- O*Net, www.onetonline.org
- Labor Market, California Employment Development Department, www.labormarketinfo.edd.ca.gov

Recommended Course Sequence: Computer Information Systems (CIS): Microcomputer Applications Specialist Cert.

Course #	Title	Units
Required Core Courses (18 Units)		
BUS 013A	Word for Windows I	1.5
BUS 013B	Word for Windows II	1.5
BUS 020	Introduction to Business	3
BUS 024	Business Mathematics	3
CIS 007	Computer Concepts	3
CIS 019B	Database Creation & Management	3
CIS 034	Introduction to Spreadsheets	3
	Total	**18**

Computer Information Systems (CIS) - Microcomputer Applications Specialist

Computer Information Systems (CIS) - Microcomputer Applications Specialist AS Degree

The Computer Information Systems Program teaches concepts, procedures and terminology, as well as the skills and applications necessary to operate computers.

Program student learning outcomes:

1. Students will filter records in an access table.
2. Students will change a Theme or Quick Style and apply it in a document.
3. Students will compose business correspondence using correct format responding to a case study.

Students must fulfill the following requirements to qualify for an Associate Degree:

- Complete the Local General Education or the California General Education Transfer Curriculum (Cal-GETC) requirements,
- Complete a minimum of 18 additional units from the major list below,
- Complete electives to reach a total of 60-degree applicable units,
- Earn a grade of C or better in each major course,
- Maintain a minimum cumulative G.P.A. of 2.00, and
- Complete the English and math proficiency requirements with a C or better

For Gainful Employment information please visit:

https://westhillscollege.com/coalinga/degrees-and-certificates/gainful-employment/

Career and employment information may be obtained through:

- O*Net, www.onetonline.org
- Labor Market, California Employment Development Department, www.labormarketinfo.edd.ca.gov

Recommended Course Sequence: Computer Information Systems (CIS): Microcomputer Applications Specialist AS Degree

Course #	Title	Units
Required Core Courses (18 Units)		
BUS 013A ..	Word for Windows I	1.5
BUS 013B ..	Word for Windows II	1.5
BUS 020	Introduction to Business	3
BUS 024	Business Mathematics	3
CIS 007	Computer Concepts	3
CIS 019B ...	Database Creation & Management	3
CIS 034	Introduction to Spreadsheets	3
	Total Major Units	18
	Total Units that may be double-counted towards GE Units	0
	General Education (GE) Units	21-28
	Elective Units (As needed to reach 60 units)	21-14
	Total Degree Units	**60**

Early Childhood Education

Early Childhood Education AS-T

The Associate in Science in Child development for Transfer Degree is designed to provide students a seamless transfer to the California State University system. The degree is designed to prepare students for a baccalaureate degree in Early Childhood Education or similar major.

The West Hills College Child Development Program offers a comprehensive background in the field of child growth and development. Program emphasis includes information directed at working with culturally diverse families, addressing the needs of children at risk through early intervention, and creating and teaching developmentally appropriate curriculum to young children.

Students will be offered information and skills for potential employment in Federal, State, non-profit, or privately owned early childhood education/child care programs. Courses in this program may assist the student to qualify for Child Development Certificates issued by West Hills College and/or a Child Development Permit obtained from the State of California, Commission for Teacher Preparation and Licensing.

Program student learning outcomes:

1. Students will integrate child development concepts into their personal teaching philosophy while working with young children.
2. Students will apply a basic understanding of teaching developmentally appropriate concepts while working with children.

Students must meet the following requirements to qualify for an Associates for Transfer Degree (ADT):

- Complete 60 semester units or 90 quarter units that are eligible for transfer to the California State University (CSU).
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtain a minimum grade point average of 2.0.
- Minimum grade of "C" for each course in the major.
- Completion of CalGETC Requirements with a minimum grade of "C".

Recommended Course Sequence: Early Childhood Education AS-T Degree

This program has 50 percent or more of the major courses available via distance education/online

Course #	Title	Units
Required Core Courses (24 Units)		
CD 002	Teaching in a Diverse Society	3
CD 003	Observation and Assessment	3
CD 005	Child Development	3
CD 010	Child, Family and Society	3
CD 012A	Principles & Practices of Early Childhood Education	3
CD 012B	Principles and Practices of Early Childhood Education Field Work	3
CD 016	Introduction to Curriculum	3
CD 018	Health, Safety and Nutrition	3
	Total Major Units	24
	Units that may be double-counted as GE	6
	General Education (Cal-GETC) Units	34
	Elective Units	8
	Total Degree Units	**60**

Elementary Teacher Education

Elementary Teacher Education AA-T Degree

The Associate of Arts for Transfer in Elementary Teacher Education is designed to provide students a seamless transfer to the California State University system. The degree is designed for students who are planning to become elementary teachers, with a goal of seamlessly transferring to a CSU and completing a Liberal Arts or Liberal Studies degree, and continuing on to earn a multiple-subject teaching credential. The degree provides the foundation for teacher development and training

Program student learning outcomes:

1. Students will compose a formal, argumentative MLA-style research paper that shows an understanding of the writing process, technical correctness, and higher-level critical thinking skills.
2. Students will identify a career path and educational goals for a career in education taking into consideration the level(s) they want to teach and the institution(s) where they want to complete their degree(s) and credential(s).
3. Students will provide a college-level in class written analysis of authors' content and style given an assigned reading.
4. Students will develop and teach a standards-based lesson in an authentic educational setting that will include intention/rationale, process assessment, and reflection.
5. Students will demonstrate basic public speaking delivery techniques.

Students must meet the following requirements to qualify for an Associates for Transfer Degree (ADT):

- Complete 60 semester units or 90 quarter units that are eligible for transfer to the California State University (CSU).
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtain a minimum grade point average of 2.0.
- Minimum grade of "C" for each course in the major.
- Completion of CalGETC Requirements with a minimum grade of "C".

Recommended Course Sequence: Elementary Teacher Education AA-T Degree

This program has 50 percent or more of the major courses available via distance education/online

Course #	Title	Units
Required Core Courses (24-26 units)		
CD 005	Child Development	3
COMM C1000	Introduction to Public Speaking	3
EDUC 001 . .	Introduction to Teaching	3
HIST 017A . .	History of the United States 1492-1877	3
POLS C1000	American Government and Politics	3
ENGL C1000	Academic Reading and Writing	3
OR ESL 001 .	Composition for College	5
BIO 010	Fundamentals of Biology	3
OR BIO 015 .	Biology for Education	3
HIST 020 . . .	World History I	3
OR ENG 002	Introduction to Literature	3
Plus 4-8 units from the courses below:		
ESCI 002 . . .	Introduction to Earth Science	4
PHYSCI 002	Chemistry and Physics for Educators	4
Plus 3 units from the courses below:		
ART 042	Art Appreciation	3
MUS 042 . . .	Music Appreciation	3
Plus 0-12 units from the courses below:		
EDUC 005 . .	Critical Thinking in the Classroom	3
ENGL C1001	Critical Thinking and Writing	3
GEOG 002 . .	World Regional Geography	3
LING 011 . . .	Introduction to Linguistics	3
MATH 010A	Structure & Concepts in Mathematics I	3
MATH 010B	Structure & Concepts in Mathematics II	3
PHIL 002 . . .	Introduction to Logic	3
	Total Major Units.	31-49
	Units that may be double-counted as GE.	25
	General Education (Cal-GETC) Units.	34
	Elective Units.	0
	Total Degree Units	**60**

English

English AA-T Degree

The Associate of Arts in English for Transfer Degree is designed to provide students a seamless transfer to the California State University (CSU). The degree is designed to prepare students for a baccalaureate degree in English or a similar major. Students will gain a broad knowledge in the field including analytical reading, critical thinking, research writing, creative writing, and interpretation of literature.

The program includes coursework designed and sequenced to build a foundation of skills and knowledge that support university-level study. A baccalaureate degree will prepare students to work in a variety of occupations, including education, journalism, public relations, the entertainment industry, and the publishing industry.

Program student learning outcomes:

1. Students will write a successful MLA-style research paper.
2. Students will analyze readings.
3. Students will apply effective rhetorical strategies.
4. Students will write in clear, conventional college English.

Students must meet the following requirements to qualify for an Associates for Transfer Degree (ADT):

- Complete 60 semester units or 90 quarter units that are eligible for transfer to the California State University (CSU).
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtain a minimum grade point average of 2.0.
- Minimum grade of "C" for each course in the major.
- Completion of CalGETC Requirements with a minimum grade of "C".

Recommended Course Sequence: English AA-T Degree

This program has 50 percent or more of the major courses available via distance education/online

Course #	Title	Units
Required Core Courses (6 units)		
ENGL C1001	Critical Thinking and Writing	3
ENG 002 . . .	Introduction to Literature	3
Plus 6 Units from the courses below:		
ENG 006 . . .	Early American Literature	3
ENG 007 . . .	Early British Literature	3
ENG 008 . . .	Modern British Literature	3
Plus 3 Units from the courses below:		
Any course not already completed above.		
ENG 025 . . .	Creative Writing	3
Plus 3 units from the courses below:		
Any course not already completed above.		
CD 015	Literature and Language Arts for Young Children	3
COM 002 . . .	Oral Interpretation of Literature	3
ENGL C1000	Academic Reading and Writing	3
HUM 001 . . .	Introduction to Western Culture	3
LING 011 . . .	Introduction to Linguistics	3
	Total Major Units.	18
	Units that may be double-counted as GE.	12
	General Education (Cal-GETC) Units.	34
	Elective Units.	20
	Total Degree Units	**60**

English as a Second Language - Non Credit

English as a Second Language Certificate of Competency

The ESL Certificate of Competency is designed to prepare students to communicate, write, and read in the English language. Students will have an opportunity to show their employers and future employers that they have an understanding and knowledge of the English language.

Program student learning outcomes:

1. Students will verbally communicate, by using appropriate beginning level grammar, vocabulary, organization, and clear pronunciation.
2. Students will carry a conversation based on a contemporary issue and will present new information to the class.
3. Students will develop a paragraph using lower-intermediate level grammar.
4. Students will create a presentation about their background, job skills, and educational experiences.

Recommended Course Sequence: English As A Second Language Non-Credit Cert.

Course #	Title	Units
Required Core Courses		
NC 120	Beginning Reading, Writing, & Speaking Skills	N/A
NC 125	Intermediate Reading, Writing & Speaking	N/A
NC 130	Advanced Reading, Writing & Speaking	N/A
NC 135	Advanced Communication Skills for Life And Career	N/A
	Total Hours	**216**

Entry Level Diesel Mechanic

Entry Level Diesel Mechanic - Certificate of Achievement

The Certificate of Achievement in Entry Level Diesel Mechanic is designed to prepare students for a career as an entry-level mechanic. Using modern equipment, the certificate offers instruction and training in equipment operation, diesel engine repair, and hydraulics. Career opportunities for students exist in the agricultural, industrial, construction, material handling, and mining industries.

Program student learning outcomes:

1. Students will maintain a safe working environment.
2. Students will identify all parts of a diesel engine.
3. Students will identify all parts of a hydraulic system.

Career and employment information may be obtained through:

- O*Net, www.onetonline.org
- Labor Market, California Employment Development Department, www.labormarketinfo.edd.ca.gov

Recommended Course Sequence: Entry Level Diesel Mechanic Cert.

Course #	Title	Units
Required Core Courses (9 Units)		
DT 094	Introduction to Diesel Engine Repair	3
DT 096	Hydraulics	3
IMT 060	Industrial Core	3
	Total	**9**

Entry Level Truck Driving

Entry Level Truck Driving- Certificate of Achievement

The Certificate of Achievement in Entry Level Truck Driving program is designed to prepare students with the knowledge and experience necessary to earn a Class A CDL (Commercial Drivers License). Students log time behind the wheel on the driving range and on public roads and highways prior to graduation. Career opportunities for students exist in the agricultural, industrial, construction, and supply chain.

Program student learning outcomes:

1. Students will perform all equipment safety checks.
2. Students will identify all parts and safety components of a commercial combination vehicle.
3. Students will operate a commercial combination vehicle on range and public roads.

Career and employment information may be obtained through:

- O*Net, www.onetonline.org
- Labor Market, California Employment Development Department, www.labormarketinfo.edd.ca.gov

Recommended Course Sequence: Entry Level Truck Driving Cert.

Course #	Title	Units
Required Core Courses (9.5 Units)		
DT 050	State Laws and Federal Regulations	3
DT 052	Safe Operation Fundamentals	3
DT 058	Operations of Commercial Vehicles I	3
DT 079	Commercial Driver Testing	0.5
	Total	**9.5**

Equipment Technician

Equipment Technician- Certificate of Achievement

The Certificate of Achievement in Equipment Technician is designed to prepare students for a career as an entry-level equipment technician. Using modern equipment, the certificate offers instruction and training in equipment operation, diesel engine repair, hydraulics and equipment systems including electrical and drive systems. Career opportunities for students exist in the agricultural, industrial, construction, material handling, and mining industries.

Program student learning outcomes:

1. Students will maintain a safe working environment and properly use personal protective equipment (PPE).
2. Students will identify all parts and components of a diesel engine.
3. Students will troubleshoot a modern diesel engine.
4. Students will clearly communicate repairs to the customer in written form.
5. Students will identify all parts and components in a hydraulic system.
6. Students will identify different types of hydraulic systems.

Career and employment information may be obtained through:

- O*Net, www.onetonline.org
- Labor Market, California Employment Development Department, www.labormarketinfo.edd.ca.gov

Recommended Course Sequence: Equipment Technician Cert.

Course #	Title	Units
Required Core Courses (18 Units)		
AG 014	Tractor Operations	3
DT 094	Introduction to Diesel Engine Repair	3
DT 095	Advanced Diesel Engine Repair	3
DT 096	Hydraulics	3
DT 097	Equipment Systems	3
IMT 060	Industrial Core	3
	Total	**18**

Food Science and Safety

Food Science and Safety Certificate of Achievement

The Food Science and Safety Program will prepare students for careers in food quality control, sanitation, safety, processing, and product development. Upon completion of this program, employment opportunities include positions with food processing operations, local, state and federal food inspection services, food sanitation and public health services, and food research and development ventures. The HACCP curriculum in this program is accredited by the HACCP Alliance. Students completing the program coursework will receive a certificate with the International HACCP Alliance seal and also earn the Association of Food & Drug Officials (AFDO) Preventative Control Qualified Individual for Human Food (PCQI) Certificate.

Program student learning outcomes:

1. Students will identify sanitation and basic food safety concepts.
2. Students will identify verification and validation of Preventative Controls, Produce Safety Rule, Good Manufacturing Processes (GMPs), and Good Agricultural Practices.
3. Students will identify and apply FDA and USDA rules and regulations.
4. Students will identify the basics of Hazard Analysis Critical Control Points (HACCPs) and develop a HACCP plan.
5. Students will create a management plan for a given scenario.

Career and employment information may be obtained through:

- O*Net, www.onetonline.org
- Labor Market, California Employment Development Department, www.labormarketinfo.edd.ca.gov

Recommended Course Sequence: Food Science and Safety Cert.

Course #	Title	Units
Required Core Courses (14 units)		
FSS 005	Food Safety Management With Application To Production Systems	3
FSS 020	Agriculture Laws and Regulations	2
FSS 025	Principles of Hazard Analysis and Critical Control	3
FSS 030	Audits, Preventive Controls and Produce Safety	3
FSS 040	Facility Food Safety Management	3
Plus 3 units from the courses below:		
FSS 010	Food Chemistry	3
FSS 015	Microbiology of Foods	4
FSS 035	Principles of Food Science	3
	Total	**17-18**

Geography

Geography AA-T

The Associate in Arts in Geography for Transfer (AA-T) degree is designed to provide students a seamless transfer to the California State University system. The degree program reflects the Transfer Model Curriculum (TMC) supported by the Statewide Academic Senate and is designed to prepare students for a baccalaureate degree in Geography or similar major.

A degree in geography trains individuals to view the full scope of Earth's natural and cultural systems from a spatial perspective; therefore, geographers have an important role to play in understanding and interpreting the many complex patterns and processes that characterize places/regions and determine the interactions that occur between and within places/regions. Geographers are trained to draw upon a variety of information sources/disciplines and to view the world from a holistic perspective. In addition to the degree requirements, students must also complete the Cal-GETC General Education Requirements.

Program student learning outcomes:

1. Students will use maps and other geographic representations, tools, and technologies to acquire, process, and report information from a spatial perspective.
2. Students will have an understanding of how physical processes shape the Earth's surface and determine the character and spatial distribution of global climates and ecosystems.
3. Students will have an understanding of the characteristics, distribution, and migration of human populations on Earth's surface.
4. Students will have an understanding of the characteristics, distribution, and complexity of Earth's cultural mosaic.
5. Students will have an understanding of the patterns and networks of physical and cultural interdependence on Earth's surface.
6. Students will have an understanding of how physical systems affect human systems and of how human actions affect physical systems.

Students must meet the following requirements to qualify for an Associates for Transfer Degree (ADT):

- Complete 60 semester units or 90 quarter units that are eligible for transfer to the California State University (CSU).
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtain a minimum grade point average of 2.0.
- Minimum grade of "C" for each course in the major.
- Completion of CalGETC Requirements with a minimum grade of "C".

Recommended Course Sequence: Geography AA-T Degree

Course #	Title	Units
Required Core Courses (14 Units)		
GEOG 001	Physical Geography	4
GEOG 002	World Regional Geography	3
GEOG 003	Cultural Geography	3
GEOL 001	Physical Geology	4
Plus 6-7 units from the courses listed below:		
GEOG 005	Introduction to Weather and Climate	3
GEOG 016	Regional Field Studies	1
GEOG 018	Geography of California	3
	Total Major Units	20-21
	Units that may be double-counted as GE	10
	General Education (Cal-GETC) Units	34
	Elective Units	15-16
	Total Degree Units	**60**

Geology

Geology AS-T Degree

The Associate in Science in Geology for Transfer Degree is designed to provide students a seamless transfer to the California State University system. The degree is designed to prepare students for a baccalaureate degree in Geology or similar major.

A degree in geology provides individuals with training in the physical aspects and history of the earth. These individuals are then able to locate resources (e.g., fossil fuels and minerals) and manage and mitigate human impacts on ecosystems. They are employed as research scientists, teachers and geologists by educational institutions, construction companies, government agencies, mining and petroleum industries, surveying and engineering companies, and environmental consulting firms. Geologists are generally analytical, inquisitive and creative. They are required to work well individually or as team members and to communicate effectively.

Program student learning outcomes:

1. Students will understand the Earth as a system with separate but interacting parts.
2. Students will understand the relationship between people and the natural environment and how the application of mathematics and the discipline of geology can be used to solve problems that arise from these interactions.
3. Students will understand how scientific hypotheses and mathematical models are formulated and tested in general and specifically understand the evolution and development of major geological science theories.

Students must meet the following requirements to qualify for an Associates for Transfer Degree (ADT):

- Complete 60 semester units or 90 quarter units that are eligible for transfer to the California State University (CSU).
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtain a minimum grade point average of 2.0.
- Minimum grade of "C" for each course in the major.
- Completion of CalGETC Requirements with a minimum grade of "C".

Recommended Course Sequence: Geology AS-T Degree

Course #	Title	Units
Required Core Courses (28 Units)		
GEOL 001 . .	Physical Geology	4
GEOL 003 . .	Historical Geology	4
CHEM 001A	General Chemistry I	5
CHEM 001B	General Chemistry II	5
MATH 001A	Introduction to Calculus	5
MATH 001B	Calculus With Applications	5
	Total Major Units	28
	Units that may be double-counted as GE	7
	General Education (Cal-GETC) Units	34
	Elective Units	5
	Total Degree Units	**60**

Health Science (General)

Health Science: General - AS Degree

The Health Science General Program is designed for those students planning to transfer to two-year institutions to attain specific and additional training in a particular field of study such as dental hygiene, health care assistant, nursing, and radiology technician. Requirements for admission to each of these programs vary among institutions.

Program student learning outcomes:

1. Students will describe the processes of nutrient catabolism in human body cells.
2. Students will differentiate between human tissue types and their respective functions.

Students must fulfill the following requirements to qualify for an Associate Degree:

- Complete the Local General Education or the California General Education Transfer Curriculum (Cal-GETC) requirements,
- Complete a minimum of 18 additional units from the major list below,
- Complete electives to reach a total of 60-degree applicable units,
- Earn a grade of C or better in each major course,
- Maintain a minimum cumulative G.P.A. of 2.00, and
- Complete the English and math proficiency requirements with a C or better

Recommended Course Sequence: Health Science: General AS Degree

Course #	Title	Units
Required Core Courses (19-20 Units)		
BIO 032	Human Anatomy	4
BIO 035	Human Physiology	4
BIO 038	Microbiology	4
CHEM 001A	General Chemistry I	5
or CHEM 002A	Introductory Chemistry	4
NUT 001	Basic Nutrition	3
	Total Major Units	19-20
	Total Units that may be double-counted towards GE Units	8-9
	General Education (GE) Units	21-28
	Elective Units (As needed to reach 60 units)	28-21
	Total Degree Units	**60**

Recommended Electives: PSYC-C1000, SOC-001

Heating Ventilation and Air Conditioning

Heating Ventilation and Air Conditioning - Certificate of Achievement

The Heating, Ventilation, and Air Conditioning program is a Certificate of Achievement program designed to prepare students for a career in Heating, Ventilation, and Air Conditioning. Program performance standards for certification will be in accordance with those set forth by the National Center for Construction and Research (NCCER). Career opportunities for graduates include employment with commercial heating and air conditioning contractors, residential mechanical contractors, parts and equipment distributors, large commercial and industrial facility maintenance departments, hospitals, custom design and new construction markets

Program student learning outcomes:

1. Students will perform all safety checks on an HVAC system before any work begins.
2. Students will properly use various types of testing equipment.
3. Students will properly adjust system components.
4. Students will interpret technical drawings.
5. Students will identify all components of an HVAC system.

Career and employment information may be obtained through:

- O*Net, www.onetonline.org
- Labor Market, California Employment Development Department, www.labormarketinfo.edd.ca.gov

Recommended Course Sequence: Heating, Ventilation, and Air Conditioning Cert.

Course #	Title	Units
Required Core Courses (18 Units)		
IMT 060	Industrial Core	3
HVAC 060	Fundamentals of HVAC	3
HVAC 061	Introduction to Heating and Refrigeration Cycles	4
HVAC 062	HVAC Installation and Troubleshooting	4
HVAC 063	Advanced HVAC Systems	4
	Total	**18**

Heavy Equipment Operation

Heavy Equipment Operation - Certificate of Achievement

Coalinga College Heavy Equipment Operation Certificate Program is a one semester Certificate of Achievement program. Intrinsic learning is accomplished through a hands on approach to introduce students to a wide range of skills necessary for equipment operation. Laboratory work is designed to simulate field experiences.

Heavy equipment operation requires good hand-eye coordination and demands attention to details like timelines, precision operation, coordination of multiple tasks, and following plan directions. Development of problem solving skills and safe work habits will be instilled in the student.

Heavy Equipment Operation program prepares students for careers in the operation of crawlers, tractors, scrapers, backhoes, excavator, loaders, motor graders, trucks, laser controlled equipment, and technical support programs. The curriculum is designed to align with the National Center for Construction Education and Research (NCCER) certification. Completion of the certificate qualifies students to enter the professional job market.

Program student learning outcomes:

1. Students explain the basic terminology and types of equipment and their uses.
2. Students will explain the need for safety measures when working in and around heavy equipment.
3. Students will describe the long- and short-term health effects, first-aid measures, handling and storage, and/or required personal protective equipment (PPE) for a chemical using a safety data sheet (SDS).
4. Students will explain the basics of a hydraulic system and identify hydraulic components.
5. Students will describe basic safety rules and some specific safety rules when operating heavy equipment.
6. Students will perform basic maneuvering with a tractor.
7. Students will identify and explain earthmoving terms and methods.
8. Students will demonstrate and state the steps of the pre-operational safety inspection.
9. Students will explain safety rules for operating the following: rollers, scrapes, loaders, forklifts, dozers, backhoes, excavators, and motor graders.
10. Students will identify basic geometric shapes.
11. Students will interpret construction plans to determine grading requirements.
12. Students will read and interpret drawings to determine the type of excavations needed to prepare the site.
13. Students will describe how workers' values have changed over the years.
14. Students will list the characteristics of effective leaders.
15. Students will identify the three styles of leadership.
16. Students will explain the purpose of the Occupational Safety and Health Act (OSHA).
17. Students will identify the key points of a safety program.
18. Students will define the three types of project delivery systems.
19. Students will identify the two most common schedules.
20. Students will demonstrate an understanding of laser and GPS technology.
21. Students will explain the requirements for finishing and final grading of earthwork.
22. Students will describe the characteristics of different types of soils.

For Gainful Employment information please visit:

https://westhillscollege.com/coalinga/degrees-and-certificates/gainful-employment/

Career and employment information may be obtained through:

- O*Net, www.onetonline.org
- Labor Market, California Employment Development Department, www.labormarketinfo.edd.ca.gov

Recommended Course Sequence: Heavy Equipment Operation Cert.

Course #	Title	Units
Required Core Courses (18 Units)		
IMT 060	Industrial Core	3
HVYEQUI 060A	Level I Heavy Equipment Operation	5
HVYEQUI 060B	Level II Heavy Equipment Operations	5
HVYEQUI 060C	Level III Heavy Equipment Operations	5
	Total	**18**

History

History AA-T Degree

The Associate of Arts for Transfer (AA-T) Degree in History is designed to provide students a seamless transfer to a California State University History major and the eventual completion of a baccalaureate degree in History. The AA-T in History will grant guaranteed admission to a CSU, with junior standing, and the ability to complete remaining requirements within 60 semester or 90 quarter units.

Historians analyze the events and processes of the past, both to gain more understanding of the human experience across place and time, and to explain the distinctive dynamics of particular societies, usually in regional and chronological contexts. Historical inquiry is an important part of any liberal arts program and of the development of critical thinking skills. Most careers in history require education beyond the associate degree and some require a graduate degree. The study of history can serve as preparation for graduate study in education, law, business, government, and journalism.

Program student learning outcomes:

1. Students will identify and explain assimilations of cultural significance into historical civilizations.
2. Students will identify and explain how cultures influenced world societies.
3. Students will demonstrate thinking skills by analyzing, synthesizing, and evaluating historical information from multiple sources by creating a short answer essay.
4. Students will produce well researched written work that engages primary sources on historical events.

Students must meet the following requirements to qualify for an Associates for Transfer Degree (ADT):

- Complete 60 semester units or 90 quarter units that are eligible for transfer to the California State University (CSU).
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtain a minimum grade point average of 2.0.
- Minimum grade of "C" for each course in the major.
- Completion of CalGETC Requirements with a minimum grade of "C"

Recommended Course Sequence: History AA-T Degree

Course #	Title	Units
Required Core Courses (6 units)		
HIST 017A ..	History of the United States 1492-1877	3
HIST 017B ..	History of the United States 1865-PRESENT	3
List A: 6 Units from the courses below:		
HIST 004A ..	Western Civilization to 1700	3
OR HIST 020	World History I	3
HIST 004B ..	Western Civilization From 1700	3
OR HIST 021	World History II	3
Plus 1 course from each area below (6 Units):		
Area 1 Diversity: (3 Units)		
Any course above not already completed from List A above.		
HIST 032 ...	Cultural History of the Chicano	3
HIST 044 ...	Women's Roles in United States History	3
Area 2: (3 Units)		
Any course above not already completed from List A above.		
GEOG 002 ..	World Regional Geography	3
GEOG 003 ..	Cultural Geography	3
HUM 001 ...	Introduction to Western Culture	3
HUM 022 ...	Introduction to Comparative Religion	3
POLS C1000	American Government and Politics	3
PSYC C1000	Introduction to Psychology	3
SOC 001	Introduction to Sociology	3
SW 020	Introduction to Social Work and Human Services	3
	Total Major Units.	18
	Units that may be double-counted as GE.	9
	General Education (Cal-GETC) Units.	34
	Elective Units.	17
	Total Degree Units	**60**

Integrated Pest Management

Integrated Pest Management Certificate of Achievement

The Integrated Pest Management program prepares students for an agriculture production career; learning the skills needed for the production and care of agricultural crops through hands-on, real-world experience. Completion of the certificate qualifies students to enter the professional job market or the units may be applied as university transfer or to fulfill the education requirement for the California Department of Pesticide Regulation's (CDPR) Agricultural Pest Control Adviser (PCA) license. This certificate program is for students interested in careers as Pest Control Advisers, Certified Crop Consultants, Qualified Applicator's or Agri-chemical sales representatives.

Program student learning outcomes:

1. Students will identify common weeds found in Central California and statewide.
2. Students will explain the methods of safely applying various herbicides.
3. Students will identify insects and closely related plant and animal pests and pest damage.
4. Students will explain the economic aspects of beneficial and harmful insects.
5. Students will select possible methods and timing of control in a given circumstance.
6. Students will understand the difference between California laws and DPR regulations.
7. Students will diagram and describe the parts of a pesticide label.
8. Students will understand the requirements to use a pesticide with a restricted label.
9. Students will identify and describe the various DPR pest control certifications and licenses.
10. Students will employ the principles and concepts of IPM in field crop environments.
11. Students will explain the mode of action of pesticides, pesticide absorption by the human body, and the importance of poisoning measurements.
12. Students will safely and properly mix, calibrate, apply, and dispose of different pesticide formulations utilizing different techniques and equipment.

For Gainful Employment information please visit:

https://westhillscollege.com/coalinga/degrees-and-certificates/gainful-employment/

Career and employment information may be obtained through:

- O*Net, www.onetonline.org
- Labor Market, California Employment Development Department, www.labormarketinfo.edd.ca.gov

Recommended Course Sequence: Integrated Pest Management Cert.

Course #	Title	Units
Required Core Courses (11 Units)		
CRPSCI 032 .	Weeds and Poisonous Plants	3
CRPSCI 044 .	Economic Entomology	3
CRPSCI 045 .	California Pest Control Laws and Regulations	2
CRPSCI 046 .	Integrated Pest Management	3
Plus 3 units from the courses listed below:		
CRPSCI 001 .	Introduction to Plant Science	3
CRPSCI 002 .	Plant Science Theory	3
Plus 4 units from the courses listed below::		
AGBUS 015 .	Computer Application to Agriculture	3
AET 021	Ag-Irrigation Management	3
CRPSCI 006 .	Introduction to Precision Agriculture	3
CRPSCI 019 .	California Water	3
CRPSCI 036 .	Fertilizers and Soil Amendments	3
SLSCI 021 . .	Introduction to Soil Science	4
	Total	**18-20**

Irrigation Systems Management - Non Credit

The Irrigation System Management Certificate of Completion provides the fundamental knowledge and skills for a person to work with advanced irrigation systems to ensure its safe operation, proper functions, and long term usage. Courses focus on operation and maintenance of the entire irrigation system for the purpose of upgrading the skills of current field workers or irrigators. Technology, including automated irrigation, will be a component of this certificate.

Program Student Learning Outcomes
Upon completion of the program, the student will be able to:

1. Students will use an automated system to control the irrigation of agricultural crops.
2. Students will demonstrate the proper maintenance of water delivery systems.
3. Students will explain the factors required for proper operation of a filter station.

Recommended Course Sequence: Irrigation Systems Management Non-Credit Cert.

Course #	Title	Units
Required Core Courses		
NC 182	Understanding Flow and Pressure	N/A
NC 183	Use of Field Mobile Computing Devices	N/A
NC 184	Maintenance of Agriculture Irrigation Filter Systems	N/A
NC 185A	Installing Field Sensors Filter Systems	N/A
NC 185B	Installing Automated Irrigation Systems Filter Systems	N/A
NC 185C	Scheduling Automated Irrigation Systems Filter Systems	N/A
NC 186	Maintenance of Irrigation Pumping and Delivery	N/A
NC 187	Impacts of the Sustainable Groundwater Management Act (sgma)	N/A
	Total Hours	**145**

Kinesiology

Kinesiology AA-T Degree

The Kinesiology Associate of Arts for Transfer provides students with seamless transfer into the California State University (CSU) system to pursue a baccalaureate degree in Kinesiology, Exercise Science, or Physical Education. This degree prepares students to understand kinesiology, human bodily movement, exercise, and the relationships between physical activity and health. Courses prepare students to pursue studies in exercise science, kinesiology/ physical education credential programs, athletic training/sports medicine, coaching/sports instruction, sports administration, and other health-related areas.

Program student learning outcomes:

1. The students will demonstrate knowledge of major muscle groups and joint movements as they pertain to common human performance.
2. The students will demonstrate the proper technique for performing exercises to improve general fitness and wellness.
3. The students will explain the connection between proper nutrition and improved athletic performance.
4. The students will explain how healthy mental functioning impacts athletic performance.
5. The students will select and implement field tests necessary for fitness assessments.

Students must meet the following requirements to qualify for an Associates for Transfer Degree (ADT):

- Complete 60 semester units or 90 quarter units that are eligible for transfer to the California State University (CSU).
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtain a minimum grade point average of 2.0.
- Minimum grade of "C" for each course in the major.
- Completion of CalGETC Requirements with a minimum grade of "C".

Recommended Course Sequence: Kinesiology AA-T Degree

Course #	Title	Units
Required Core Courses (11 Units)		
BIO 032	Human Anatomy	4
BIO 035	Human Physiology	4
KINES 001	Introduction to Kinesiology	3
Plus 1 unit from the Fitness courses below:		
PE 006	Body Conditioning	1
PE 016	Jogging and Power Walking	1
PE 021A	Introductory Fitness Lab	1
PE 021B	Beginning Fitness Lab	1
PE 021C	Intermediate Fitness Lab	1
PE 023	Weight Training	1
PE 024	Circuit Training	0.5 - 1
Plus 1 unit from the Individual Sports courses below:		
PE 003	Badminton	1
PE 011	Golf	1
PE 020	Tennis	1
Plus 1 unit from the Team Sports courses below:		
PE 022A	Beginning Volleyball	1
PE 022B	Intermediate Volleyball	1
PE 025A	Introductory Soccer	1
PE 032A	Beginning Basketball	1
Plus 2 courses (6 Units Minimum) from courses below:		
CHEM 001A	General Chemistry I	5
HE 035	Personal Health and Hygiene	3
KINES 048	First Aid and Safety	3
STAT C1000	Introduction to Statistics	4
PHYSICS 002A	Mechanics and Thermodynamics	4
OR PHYSICS 004A	Classical Mechanics	4
PSYC C1000	Introduction to Psychology	3
OR SOC 001	Introduction to Sociology	3
	Total Major Units	20-23
	Units that may be double-counted as GE	13
	General Education (Cal-GETC) Units	34
	Elective Units	16-19
	Total Degree Units	**60**

Law, Public Policy, and Society

The Associate in Arts in Law, Public Policy, and Society for Transfer degree will provide students with a seamless transfer to a California State University. This program offers courses that satisfy lower-division General Education requirements in both the physical and social sciences, providing students with a solid foundation in Law, Public Policy, and Society and the standard prerequisites for upper-division coursework leading to the baccalaureate degree. Students who plan to major in Law, Public Policy, and Society should consult the lower-division requirements at the university they plan to attend. This program, through interdisciplinary studies in the administration of justice, business, political science, history, and communications, will provide students with skills in critical thinking, persuasive communication, analytical writing, and a foundational understanding of the behavioral and social sciences. Students will be prepared for majors such as criminal justice, criminology, global intelligence and national security, international relations, philosophy, political science, business, pre-law, and social and behavioral sciences.

Program Student Learning Outcomes

1. Students will identify and discuss the legal framework for American institutions and systems of justice.
2. Students will demonstrate knowledge of practical applications and evaluations of policy outcomes in civic culture.
3. Students will identify and demonstrate effective and appropriate written and oral communication skills, both verbal and nonverbal, in a variety of communication contexts and with diverse populations.
4. Students will critically analyze issues in public policy consistent with constitutional legal standards and mandates.
5. Students will explain the key components of the criminal justice system.
6. Analyze, investigate, and compare ideological approaches to governmental systems.
7. Students will identify and demonstrate effective and appropriate written and oral communication skills, both verbal and nonverbal, in a variety of communication contexts and with diverse populations.

Students must meet the following requirements to qualify for an Associates for Transfer Degree (ADT):

*   Complete 60 semester units or 90 quarter units that are eligible for transfer to the California State University (CSU).
*   A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
*   Obtain a minimum grade point average of 2.0.
*   Minimum grade of "C" for each course in the major.
*   Completion of CalGETC Requirements with a minimum grade of "C".

Recommended Course Sequence: Law, Public Policy, and Society AA-T Degree

Course #	Title	Units
Required Core Courses (23 Units)		
AOJ 001	Introduction to Criminal Justice	3
AOJ 020	Criminal Law	3
BUS 018	Business Law	4
COMM C1000	Introduction to Public Speaking	3
PHIL 003 . . .	Introduction to Ethics	3
POLS C1000	American Government and Politics	3
STAT C1000	Introduction to Statistics	4
Plus 3 units from the courses listed below:		
ENGL C1000	Academic Reading and Writing	3
ESL 001	Composition for College	5
Plus 3 units from the courses listed below:		
HIST 017A . .	History of the United States 1492-1877	3
HIST 017B . .	History of the United States 1865-PRESENT	3
Plus 3 units from the courses listed below:		
COM 003 . . .	Argumentation and Debate	3
ENGL C1001	Critical Thinking and Writing	3
PHIL 002 . . .	Introduction to Logic	3
	Total Major Units.	32-34
	Units that may be double-counted as GE.	18-21
	General Education (Cal-GETC) Units.	34
	Elective Units.	10-15
	Total Degree Units	**60**

Liberal Arts - Area of Emphasis for Arts and Humanities

Liberal Arts - Area of Emphasis for Arts and Humanities AA Degree

The Arts and Humanities area of emphasis is designed to provide the student with an opportunity to understand emotional and intellectual responses, increase awareness and appreciation of the traditional humanistic disciplines such as art, drama, literature, music, philosophy, and foreign language in addition to introducing and understanding of the interrelationships between these disciplines. This area of emphasis prepares students for baccalaureate majors including but not limited to: art, foreign language, history, philosophy and performing arts.

Program student learning outcomes:

1. Students will be able to evaluate the soundness of an argument.
2. Students will be able to compare and contrast two or more philosophical or religious views.
3. Students will be able to articulate several broad historical, religious, artistic, literary and philosophical movements within Eastern and Western culture.

Students must fulfill the following requirements to qualify for an Associate Degree:

- Complete the Local General Education or the California General Education Transfer Curriculum (Cal-GETC) requirements,
- Complete a minimum of 18 additional units from the major list below,
- Complete electives to reach a total of 60-degree applicable units,
- Earn a grade of C or better in each major course,
- Maintain a minimum cumulative G.P.A. of 2.00, and
- Complete the English and math proficiency requirements with a C or better

Recommended Course Sequence: Liberal Arts: Arts and Humanities AA Degree

Course #	Title	Units
Course #	*Title*	*Units*

Required Core Courses (18 Units). Courses must be selected from two or more disciplines.

Course #	Title	Units
ART 002	Two-Dimensional Design	3
ART 003	Three-Dimensional Design Fundamentals	3
ART 005A	Basic Drawing	3
ART 005B	Intermediate Drawing	3
ART 013A	Beginning Ceramics	3
ART 013B	Intermediate Ceramics	3
ART 013C	Advanced Ceramics	3
ART 015A	Beginning Painting	3
ART 015B	Intermediate Painting	3
ART 015C	Advanced Painting	3
ART 016A	Survey of Western Art: Pre-History to Proto-Renaissance	3
ART 016B	Survey of Western Art: Renaissance to The Present	3
ART 042	Art Appreciation	3
COM 002	Oral Interpretation of Literature	3
SPAN 001	Elementary Spanish I	4
SPAN 002	Elementary Spanish II	4
SPAN 003	Intermediate Spanish I	4
SPAN 004	Intermediate Spanish II	4
FLSPN 011	Introductory Spanish for the Limitedly Bilingual	4
FLSPN 012	Elementary Spanish for the Limitedly Bilingual	4
FLSPN 051	Introductory Conversational Spanish for Personal and Professional Use	3
FLSPN 052	Elementary Conversational Spanish For Personal and Professional Use	3
FLSPN 054	Advanced Conversational Spanish Personal And Professional Use	3
GEOG 003	Cultural Geography	3
HIST 004A	Western Civilization to 1700	3
HIST 004B	Western Civilization From 1700	3
HIST 020	World History I	3
HUM 001	Introduction to Western Culture	3
HUM 022	Introduction to Comparative Religion	3
LING 011	Introduction to Linguistics	3
MUS 042	Music Appreciation	3
PA 003	Film Appreciation	3
PHIL 001	Introduction to Philosophy	3
PHIL 002	Introduction to Logic	3
PHIL 003	Introduction to Ethics	3
POLSCI 005	Introduction to Political Theory	3
	Total Major Units	18
	Total Units that may be double-counted towards GE Units	9
	General Education (GE) Units	21-28
	Elective Units (As needed to reach 60 units)	30-23
	Total Degree Units	**60**

Liberal Arts - Area of Emphasis for Math and Science

Liberal Arts - Area of Emphasis for Math and Science AA Degree

The Math and Science area of emphasis is designed to provide the student with foundational knowledge and skills in the following areas: the natural sciences, the physical universe, its life forms and natural phenomena. Students will be provided the opportunity to develop mathematical and quantitative reasoning skills and demonstrate understanding of the methodologies of science as investigative tools and to understand the influence scientific knowledge has on society. This area of emphasis prepares students for baccalaureate majors including but not limited to: agriculture, computer science, engineering, enology, geology, geography, genetics, health science, kinesiology, and pre-nursing.

Program student learning outcomes:

1. Students will use mathematical models and/or concepts to solve real-world applications.
2. Student will be able to label and identify prokaryotic and eukaryotic cell parts and describe their functions.
3. Student will describe the processes of nutrient catabolism in human body cells.
4. Student will differentiate between human tissue types and their respective functions.
5. Students will describe the transcription and translation of a human gene.
6. Student will use molecular models to interpret chemical systems.
7. Students will use graphing software to interpret data.
8. Student will demonstrate the ability to use maps and other geographic representations, tolls, and technologies to acquire, process, and report information from a spatial perspective.
9. Students will demonstrate and understanding of how physical systems affect human systems and of how human actions affect physical systems.
10. Students will understand the Earth as a system with many separate but interacting parts.
11. Students will understand the relationship between people and the natural environment and will understand how the discipline of geology can be used to solve problems that arise from these interactions.
12. Students will understand how scientific hypotheses are formulated and tested in general and will specifically understand the evolution and development of major geological science theories.

Students must fulfill the following requirements to qualify for an Associate Degree:

- Complete the Local General Education or the California General Education Transfer Curriculum (Cal-GETC) requirements,
- Complete a minimum of 18 additional units from the major list below,
- Complete electives to reach a total of 60-degree applicable units,
- Earn a grade of C or better in each major course,
- Maintain a minimum cumulative G.P.A. of 2.00, and
- Complete the English and math proficiency requirements with a C or better

Recommended Course Sequence: Liberal Arts: Math & Science AA Degree

Course #	Title	Units
Required Core Courses (18 Units). Students must complete at least one course in Math.		
ASCI 012 . . .	Introduction to Animal Science	3
BIO 010	Fundamentals of Biology	3
BIO 015	Biology for Education	3
BIO 032	Human Anatomy	4
BIO 035	Human Physiology	4
BIO 038	Microbiology	4
CHEM 002A	Introductory Chemistry	4
CRPSCI 001 .	Introduction to Plant Science	3
CRPSCI 002 .	Plant Science Theory	3
CRPSCI 006 .	Introduction to Precision Agriculture	3
CRPSCI 007 .	Advanced Precision Agriculture	3
GEOG 001 . .	Physical Geography	4
GEOL 001 . .	Physical Geology	4
GEOL 003 . .	Historical Geology	4
MATH 063 . .	Intermediate Algebra	5
MATH 010A	Structure & Concepts in Mathematics I	3
MATH 010B	Structure & Concepts in Mathematics II	3
MATH 045 . .	Contemporary Math	3
MATH 001A	Introduction to Calculus	5
MATH 001B	Calculus With Applications	5
MATH 002A	Multivariate Calculus	4
MATH 002B	Differential Equations	4
STAT C1000	Introduction to Statistics	4
PSYCH 006 .	Research Methods in Psychology	3
SLSCI 021 . .	Introduction to Soil Science	4
	Total Major Units.	18
	Total Units that may be double-counted towards GE Units.	6-9
	General Education (GE) Units.	21-28
	Elective Units (As needed to reach 60 units).	27-23
	Total Degree Units	**60**

Liberal Arts - Area of Emphasis for Social and Behavioral Science

Liberal Arts - Area of Emphasis for Social and Behavioral Science AA Degree

The Social and Behavioral Science area of emphasis allows students to take courses that prepare them for possible majors within the fields of criminology, business, economics, geography, psychology, history, sociology, political science, and related disciplines. The student is provided the opportunity to learn a variety of theories and perspectives, behavioral and sociological concepts, historical context with respect to particular times, places, events and significant figures, production and distribution analysis, and American and comparative government. This area of emphasis prepares students for baccalaureate majors including but not limited to: Chicano studies, child development, criminology, economics, geography, history, mass communication and journalism, political science, psychology, and sociology and social work.

Program student learning outcomes:

1. Students will identify and explain the global significance of past political, cultural, geographic, and economic issues and how they have impacted contemporary events.
2. Students will identify and explain different theories on human development.
3. Students will identify and explain different theories of societal development.
4. Students will identify and explain how physical systems affect human systems and how human actions affect physical systems.
5. Students will identify and explain how culture affects individuals or groups.
6. Students will analyze the legitimacy and validity of the various sources used within the social science discipline, including discerning facts from opinions, biases, the validity of data collection, and public opinion polls.

Students must fulfill the following requirements to qualify for an Associate Degree:

- Complete the Local General Education or the California General Education Transfer Curriculum (Cal-GETC) requirements,
- Complete a minimum of 18 additional units from the major list below,
- Complete electives to reach a total of 60-degree applicable units,
- Earn a grade of C or better in each major course,
- Maintain a minimum cumulative G.P.A. of 2.00, and
- Complete the English and math proficiency requirements with a C or better

Recommended Course Sequence: Liberal Arts: Social & Behavioral Science AA Degree

Course #	Title	Units
Required Core Courses (18 Units). Courses must be selected from two or more disciplines.		
AGBUS 040	Introductory Agricultural Economics	3
AOJ 001	Introduction to Criminal Justice	3
AOJ 029	Criminology	3
BUS 020	Introduction to Business	3
CD 002	Teaching in a Diverse Society	3
CD 005	Child Development	3
CD 006	Child and Adolescent Development	3
CD 010	Child, Family and Society	3
CD 021	Infant and Toddler Caregiving	3
CD 024	School-Age Development	3
COM 005	Interpersonal Communication	3
COM 006	Intercultural Communication	3
CRPSCI 019	California Water	3
ECON 001A	Macroeconomics	3
ECON 001B	Microeconomics	3
GEOG 002	World Regional Geography	3
GEOG 003	Cultural Geography	3
GEOG 018	Geography of California	3
HIST 004A	Western Civilization to 1700	3
HIST 004B	Western Civilization From 1700	3
HIST 017A	History of the United States 1492-1877	3
HIST 017B	History of the United States 1865-PRESENT	3
HIST 020	World History I	3
HIST 021	World History II	3
HIST 032	Cultural History of the Chicano	3
HIST 044	Women's Roles in United States History	3
KINES 002	Introduction to Sport and Exercise Psychology	3
LING 011	Introduction to Linguistics	3
POLS C1000	American Government and Politics	3
POLSCI 002	Comparative Government	3
POLSCI 004	Introduction to International Relations	3
POLSCI 005	Introduction to Political Theory	3
POLSCI 010	Modern Politics	3
POLSCI 020	Legal and Judicial Reasoning	3
PSYC C1000	Introduction to Psychology	3
PSYCH 002	Abnormal Psychology	3
PSYCH 003	Developmental Psychology	3
PSYCH 004	Personal Psychology	3
PSYCH 005	Biological Psychology	3
PSYCH 006	Research Methods in Psychology	3
SOC 001	Introduction to Sociology	3
SOC 002	Critical Thinking and Social Problems	3
SOC 003	Marriage and Family Relations	3
SOC 005	Cultural Sociology	3
SW 020	Introduction to Social Work and Human Services	3
	Total Major Units	18
	Total Units that may be double-counted towards GE Units	9
	General Education (GE) Units	21-28
	Elective Units (As needed to reach 60 units)	30-23
	Total Degree Units	**60**

Life Skills

Life Skills - Local Certificate

The Life Skills Certificate is intended primarily for students with intellectual disabilities. The goal for this program is to increase the independence, self-determination, and quality of life for students with intellectual disabilities.

The Life Skills Certificate offers general background in transition to college, life skills and personal growth, basic computer skills, adaptive English and math, study skills, financial literacy, time management skills, etc.

In order to complete the Life Skills Certificate, students must complete the minimum 10 required units. Upon completion of this program, students will earn a local certificate of completion.

Program student learning outcomes:

1. Students will utilize a computer, computer programs, and assistive technology software.
2. Students will read, write, and edit college level documents.
3. Students will navigate the college campus, the WHCC website, the student portal, and LMS.
4. Students will solve pre-algebra math problems.
5. Students will demonstrate knowledge of basic life skills and react appropriately to life emergency situations.

Recommended Course Sequence: Life Skills Local Cert.

Course #	Title	Units
Required Core Courses (6.5 Units)		
GS 100	Transition to College for Students With Disabilities	0.5
GS 102	Guidance Studies Math	1
GS 103	Guidance Studies Reading and Writing	1
GS 104	Adapted Computer Literacy	1
GS 105	Consumer Skills	1
GS 106	Independent Living Skills	1
GS 061	Guidance Studies Content Area Support	1
	Total	**6.5**

Mathematics

Mathematics AS-T Degree

The Associate in Science in Mathematics for Transfer degree provides students preparation for careers in quantitative professions such as actuarial science, education, computer programming, systems analysis, and operations research analysis.

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

Program student learning outcomes:

1. Students will take the derivative of various functions.
2. Students will integrate various functions.
3. Students will solve application problems using calculus.

Students must meet the following requirements to qualify for an Associates for Transfer Degree (ADT):

- Complete 60 semester units or 90 quarter units that are eligible for transfer to the California State University (CSU).
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtain a minimum grade point average of 2.0.
- Minimum grade of "C" for each course in the major.
- Completion of CalGETC Requirements with a minimum grade of "C".

Recommended Course Sequence: Mathematics AS-T Degree

Course #	Title	Units
Required Core Courses (22 Units)		
MATH 001A	Introduction to Calculus	5
MATH 001B	Calculus With Applications	5
MATH 002A	Multivariate Calculus	4
MATH 002B	Differential Equations	4
STAT C1000	Introduction to Statistics	4
	Total Major Units	22
	Units that may be double-counted as GE	3-4
	General Education (Cal-GETC) Units	34
	Elective Units	7-8
	Total Degree Units	**60**

Physics

Physics AS-T Degree

The Associate in Science in Physics for Transfer (AS-T in Physics) provides a foundation in physics and mathematics and a seamless transfer to a CSU baccalaureate program in physics or physics education. The program will prepare students for a clear pathway to a CSU institution by educating them in the fundamental concepts of physics, developing analytical and quantitative reasoning skills, gaining comprehension of the integrated nature of mathematics and sciences, and executing experimental methods, assessment, and interpretation of scientific physical phenomena.

Program student learning outcomes:

1. Students will draw from an understanding of modern and classic physics to identify the interrelationships between physics and other sciences.
2. Students will apply the scientific method to an experiment from design to data interpretation.
3. Students will use a systematic approach to solve a problem, test the solution's correctness, and interpret the results in terms of the physical reality they represent.
4. Students will utilize technology and computer applications for data acquisition, scientific writing, presentation, and analysis of physics and related principles.
5. Students will apply logic and high-level mathematics to systematically solve a problem of physical reality.

Students must meet the following requirements to qualify for an Associates for Transfer Degree (ADT):

- Complete 60 semester units or 90 quarter units that are eligible for transfer to the California State University (CSU).
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtain a minimum grade point average of 2.0.
- Minimum grade of "C" for each course in the major.
- Completion of CalGETC Requirements with a minimum grade of "C".

Recommended Course Sequence: Physics AS-T Degree

Course #	Title	Units
Required Core Courses (26 Units)		
PHYSICS 004A	Classical Mechanics	4
PHYSICS 004B	Electricity, Magnetism, and Waves	4
PHYSICS 004C	Thermodynamics, Optics, and Modern Physics	4
MATH 001A	Introduction to Calculus	5
MATH 001B	Calculus With Applications	5
MATH 002A	Multivariate Calculus	4
	Total Major Units	26
	Units that may be double-counted as GE	7
	General Education (Cal-GETC) Units	34
	Elective Units	7
	Total	**60**

Political Science

Political Science AA-T Degree

The Associate in Arts in Political Science for Transfer Degree is designed to provide students a seamless transfer to the California State University system. The degree is designed to prepare students for a baccalaureate degree in Political Science or similar major.

The Associate in Arts for Transfer in Political Science is designed to provide the transfer student with the opportunity to take lower division courses that could be applied to a political science major at a four-year university. Politics is the struggle of who gets what, when and how. A broad spectrum of groups fight for their interests locally, nationally or globally. Political Science looks at the interaction between the individual or group and the government such as local and state governments creating a budget to national governments combating terrorism abroad.

The student who majors in Political Science will become more aware of current events and how those events impact their daily lives. As a Political Science major students may become more politically active and more civic responsible. An AA-T in Political Science would be a
stepping stone to many other career fields such as teaching, law, local, state and federal government work and group advocacy.

Program student learning outcomes:

1. Students will evaluate and summarize research material withouth involving their own political beliers or bias.
2. Students will state different types of governments and explain their historical developments and political processes within a given country.
3. Students will identify different political theories and apply those theories to contemporary issues.
4. Students will differentiate between different theories.

Students must meet the following requirements to qualify for an Associates for Transfer Degree (ADT):

- Complete 60 semester units or 90 quarter units that are eligible for transfer to the California State University (CSU).
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtain a minimum grade point average of 2.0.
- Minimum grade of "C" for each course in the major.
- Completion of CalGETC Requirements with a minimum grade of "C".

Recommended Course Sequence: Political Science AA-T Degree

This program has 50 percent or more of the major courses available via distance education/online

Course #	*Title*	*Units*
Required 3 Core Courses (9 Units)		
POLS C1000	American Government and Politics	3
POLSCI 002	Comparative Government	3
POLSCI 004	Introduction to International Relations	3
POLSCI 005	Introduction to Political Theory	3
Plus 7 units from the courses listed below:		
Any Course not selected from Required Core Courses.		
POLSCI 010	Modern Politics	3
STAT C1000	Introduction to Statistics	4
Plus 3 units from the courses listed below:		
Any Course not selected from above.		
AOJ 001	Introduction to Criminal Justice	3
CD 005	Child Development	3
ECON 001A	Macroeconomics	3
ECON 001B	Microeconomics	3
GEOG 003	Cultural Geography	3
GEOG 018	Geography of California	3
HIST 004A	Western Civilization to 1700	3
HIST 004B	Western Civilization From 1700	3
HIST 017A	History of the United States 1492-1877	3
HIST 017B	History of the United States 1865-PRESENT	3
POLSCI 020	Legal and Judicial Reasoning	3
PSYC C1000	Introduction to Psychology	3
PSYCH 002	Abnormal Psychology	3
PSYCH 003	Developmental Psychology	3
PSYCH 005	Biological Psychology	3
SOC 001	Introduction to Sociology	3
SOC 002	Critical Thinking and Social Problems	3
SOC 003	Marriage and Family Relations	3
SW 020	Introduction to Social Work and Human Services	3
	Total Major Units.	19
	Units that may be double-counted as GE.	12
	General Education (Cal-GETC) Units.	34
	Elective Units.	19
	Total degree Units	

Precision Agriculture

Precision Agriculture Certificate of Achievement

The Precision Agriculture Certificate prepares students to work with global positioning satellite (GPS) systems, geographic information system (GIS) software, automatic tractor guidance systems, variable rate chemical input applicators, surveying equipment, and related computer software. Students will learn in hands-on, real-world applications. Completing the certificate qualifies the student to enter the professional job market in the public sector as well as the agriculture industry. Units for the Precision Agriculture Certificate apply to the Associates Science Degree in Agriculture.

Program student learning outcomes:

1. Students will communicate technical information and work related concepts effectively through professional written and oral communication.
2. Students will understand fundamental mathematical and scientific concepts that are related to agriculture technology.
3. Students will use and apply geospatial tools including GPS, GIS, remote sensing, and IDI in agriculture, natural resources, and environmental systems for data collection, data analysis and interpretation of data.
4. Students will describe basic agronomic concepts of soil, tillage, fertilizers, pest control, and crop production.
5. Students will use technology to optimize agricultural management decisions.

For Gainful Employment information please visit:
Precision Agriculture Gainful Employment Data

Recommended Course Sequence: Precision Agriculture Cert.

Course #	Title	Units
Required Core Courses (11 Units)		
AG 015X	Occupational Work Experience	1 - 8
AGBUS 015	Computer Application to Agriculture	3
SLSCI 021	Introduction to Soil Science	4
CRPSCI 001	Introduction to Plant Science	3
or CRPSCI 002	Plant Science Theory	3
Plus 15 units from the courses listed below:		
AG 011	Agriculture Sales and Communication	3
AG 014	Tractor Operations	3
AGBUS 040	Introductory Agricultural Economics	3
AET 015	CAD for Agriculture	2
AET 021	Ag-Irrigation Management	3
CRPSCI 006	Introduction to Precision Agriculture	3
CRPSCI 008	Applications of Geospatial Technology	3
CRPSCI 017	Control and Sensor Systems in Ag	3
CRPSCI 018	Precision Ag Software	3
CRPSCI 019	California Water	3
CRPSCI 021	Orchard Production	3
CRPSCI 023	Row Crop Production	3
CRPSCI 032	Weeds and Poisonous Plants	3
CRPSCI 036	Fertilizers and Soil Amendments	3
CRPSCI 044	Economic Entomology	3
CRPSCI 045	California Pest Control Laws and Regulations	2
IMT 060	Industrial Core	3
IMT 061	Industrial Maintenance Mechanic Level I	3
IMT 062	Industrial Maintenance Mechanic Level II	4
WT 070	Introduction to Certified Welding	2.5
Total		**26**

Professional Driving

Professional Driving - Certificate of Achievement

The Truck Driving program is a Certificate of Achievement program designed to prepare students for a career as a professional driver. Using modern equipment, the certificate offers instruction and training in material handling, straight trucks, tractor trailer combinations, including doubles and loaded trucks. Students log time behind the wheel on the driving range and on public roads and highways prior to graduation. Additional training includes hazardous materials transportation, and basic tractor trailer maintenance trouble shooting and repair.

Program student learning outcomes:

1. Students will perform all equipment safety checks.
2. Students will identify all parts and safety components of a commercial combination vehicle.
3. Students will operate a commercial combination vehicle in various situations.
4. Students will document and secure various types of cargo.
5. Students will troubleshoot, maintain, and repair commercial combination vehicles.

Career and employment information may be obtained through:

- O*Net, www.onetonline.org
- Labor Market, California Employment Development Department, www.labormarketinfo.edd.ca.gov

Recommended Course Sequence: Professional Driving Cert.

Course #	Title	Units
Required Core Courses (9.5 Units)		
DT 050	State Laws and Federal Regulations	3
DT 052	Safe Operation Fundamentals	3
DT 058	Operations of Commercial Vehicles I	3
DT 079	Commercial Driver Testing	0.5
Plus 9-11 units from the courses below:		
DT 053	Cargo Handling and Securement	1
DT 059	Operations of Commercial Vehicles II	3
DT 074	Hazardous Materials Transportation	1
DT 094	Introduction to Diesel Engine Repair	3
DT 097	Equipment Systems	3
IMT 060	Industrial Core	3
	Total	**18.5-20.5**

Psychiatric Technician

Psychiatric Technician Certificate of Achievement

The Coalinga College Psychiatric Technician Program welcomes students from diverse backgrounds and is esteemed as an accredited program by the California Board of Licensed Vocational Nurses and Psychiatric Technicians. This intensive Career Technical Education (CTE) Program is structured into three core areas: nursing science, developmental/intellectual disorders, and psychiatric nursing.

Throughout the program, participants engage in a rigorous curriculum that combines theoretical learning with hands-on experiences. They gain valuable skills in applying the nursing process to provide comprehensive care for clients with a range of specialized needs, fostering an environment of inclusivity and respect for diversity.

In addition to mastering clinical skills, participants are introduced to the highest standards of professionalism and safety in psychiatric care. They are encouraged to grow as client advocates and sponsors, promoting a culture of empathy and understanding within healthcare settings.

Upon successful completion of the Psychiatric Technician Training Program, students earn a certificate of achievement, demonstrating their commitment to excellence and readiness for the licensure exam administered by the California Board of Vocational Nursing and Psychiatric Technicians. This program not only prepares students for the challenges of the healthcare field but also instills in them the values of inclusivity, compassion, and dedication to their profession.

This is an intensive and high-unit certificate/degree program requiring 2 or more years to complete. Classes will meet at the college, local hospitals, mental health facilities, Coalinga State Hospital, Porterville Developmental Center, and other approved facilities to accommodate the clinical components of instruction. The knowledge and skills within the program include the applications of safety in varied care settings, industry-specific critical thinking and problem-solving skills, evidence-based practice, and individualized holistic approaches to care.

Psychiatric Technicians are in high demand throughout California, with employment opportunities in psychiatric and substance abuse settings, residential care facilities for individuals with intellectual and developmental disabilities, the State Department of Corrections and Rehabilitation, and general medical and surgical hospitals.

Program Prerequisite Skills and/or Knowledge

1. Be at least 18 years of age.
2. Show evidence of high school graduation or equivalent (GED or CHSPE).
3. Submit a complete and current application to the Coalinga College Psychiatric Technician Training Program.
4. Complete and pass a physical, background check, and drug screen.
5. Maintain prescribed CPR certification
6. In addition to the following prerequisite courses, applicants are strongly advised to possess an active California certification as a nursing assistant (CNA)

Program Prerequisites, Corequisite or Advisory Courses

1. HS 005 -Medical Terminology - 3 units
2. BIO 032 -Human Anatomy - 4 units
3. PHARM 003 - Introduction to Pharmacology - 3 units
4. PSYC C1000- Introduction to Psychology - 3 units

Program student learning outcomes:

1. Students will apply principals of safety in various healthcare settings.
2. Students will utilize critical thinking and problem solving skills in industry specific areas.
3. Students will apply principals of caring to individualized populations.
4. Students will apply evidence-based care.
5. Students will model professional behaviors in the healthcare setting.

For Gainful Employment information please visit:

https://westhillscollege.com/coalinga/degrees-and-certificates/gainful-employment/

Career and employment information may be obtained through:

- O*Net, www.onetonline.org
- Labor Market, California Employment Development Department, www.labormarketinfo.edd.ca.gov

Recommended Course Sequence: Psychiatric Technician Cert.

Course #	Title	Units
Required Core Courses (48.5 Units)		
PT 101	Psychiatric Technician Training Program Orientation	0.5
PT 051	Fundamentals of Nursing	5
PT 051L	Fundamentals of Nursing Clinical	3
PT 052	Medical Surgical Nursing	5
PT 052L	Medical Surgical Nursing Clinical	3
PT 061	Introduction to Developmental Disabilities	5
PT 061L	Introduction to Developmental Disabilities Clinical	3
PT 062	Developmental Disabilities	5
PT 062L	Developmental Disabilities Clinical	3
PT 071	Introduction to Mental Disorders	5
PT 071L	Introduction to Mental Disorders Clinical	3
PT 072	Mental Disorders	5
PT 072L	Mental Disorders Clinical	3
	Total	**48.5**

Psychiatric Technician

Psychiatric Technician AS Degree

The Coalinga College Psychiatric Technician Program welcomes students from diverse backgrounds and is esteemed as an accredited program by the California Board of Licensed Vocational Nurses and Psychiatric Technicians. This intensive Career Technical Education (CTE) Program is structured into three core areas: nursing science, developmental/intellectual disorders, and psychiatric nursing.

Throughout the program, participants engage in a rigorous curriculum that combines theoretical learning with hands-on experiences. They gain valuable skills in applying the nursing process to provide comprehensive care for clients with a range of specialized needs, fostering an environment of inclusivity and respect for diversity.

In addition to mastering clinical skills, participants are introduced to the highest standards of professionalism and safety in psychiatric care. They are encouraged to grow as client advocates and sponsors, promoting a culture of empathy and understanding within healthcare settings.

Upon successful completion of the Psychiatric Technician Training Program, students earn an associates of science, demonstrating their commitment to excellence and readiness for the licensure exam administered by the California Board of Vocational Nursing and Psychiatric Technicians. This program not only prepares students for the challenges of the healthcare field but also instills in them the values of inclusivity, compassion, and dedication to their profession.

This is an intensive and high-unit certificate/degree program requiring 2 or more years to complete.   Classes will meet at the college, local hospitals, mental health facilities, Coalinga State Hospital, Porterville Developmental Center, and other approved facilities to accommodate the clinical components of instruction. The knowledge and skills within the program include the applications of safety in varied care settings, industry-specific critical thinking and problem-solving skills, evidence-based practice, and individualized holistic approaches to care.

Psychiatric Technicians are in high demand throughout California, with employment opportunities in psychiatric and substance abuse settings, residential care facilities for individuals with intellectual and developmental disabilities, the State Department of Corrections and Rehabilitation, and general medical and surgical hospitals.

Program Prerequisite Skills and/or Knowledge

1. Be at least 18 years of age.
2. Show evidence of high school graduation or equivalent (GED or CHSPE).
3. Submit a complete and current application to the Coalinga College Psychiatric Technician Training Program.
4. Complete and pass a physical, background check, and drug screen.
5. Maintain prescribed CPR certification
6. In addition to the following prerequisite courses, applicants are strongly advised to possess an active California certification as a nursing assistant (CNA)

Program Prerequisites, Corequisite or Advisory Courses

1. HS 005 -Medical Terminology - 3 units
2. BIO 032 -Human Anatomy - 4 units
3. PHARM 003 - Introduction to Pharmacology - 3 units
4. PSYC C1000- Introduction to Psychology - 3 units

Program student learning outcomes:

1.   Students will apply principals of safety in various healthcare settings.
2. Students will utilize critical thinking and problem solving skills in industry specific areas.
3. Students will apply principals of caring to individualized populations.
4. Students will apply evidence-based care.
5. Students will model professional behaviors in the healthcare setting.

Students must fulfill the following requirements to qualify for an Associate Degree:

-
  - Complete the Local General Education or the California General Education Transfer Curriculum (Cal-GETC) requirements,
  - Complete a minimum of 18 additional units from the major list below,
  - Complete electives to reach a total of 60-degree applicable units,
  - Earn a grade of C or better in each major course,
  - Maintain a minimum cumulative G.P.A. of 2.00, and
  - Complete the English and math proficiency requirements with a C or better

For Gainful Employment information please visit:

https://westhillscollege.com/coalinga/degrees-and-certificates/gainful-employment/

Career and employment information may be obtained through:

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- Labor Market, California Employment Development Department, www.labormarketinfo.edd.ca.gov

Recommended Course Sequence: Psychiatric Technician AS Degree

Course #	Title	Units
Required Core Courses (48.5 Units)		
PT 101	Psychiatric Technician Training Program Orientation	0.5
PT 051	Fundamentals of Nursing	5
PT 051L	Fundamentals of Nursing Clinical	3
PT 052	Medical Surgical Nursing	5
PT 052L	Medical Surgical Nursing Clinical	3
PT 061	Introduction to Developmental Disabilities	5
PT 061L	Introduction to Developmental Disabilities Clinical	3
PT 062	Developmental Disabilities	5
PT 062L	Developmental Disabilities Clinical	3
PT 071	Introduction to Mental Disorders	5
PT 071L	Introduction to Mental Disorders Clinical	3
PT 072	Mental Disorders	5
PT 072L	Mental Disorders Clinical	3
	Total Major Units	48.5
	Total Units that may be double-counted towards GE Units	0
	General Education (GE) Units	21-28
	Elective Units (As needed to reach 60 units)	0
	Total Degree Units	**60**

Students planning to transfer to a four-year university are cautioned that this degree may not meet all of the lower division requirements for transfer into a particular major. Students should consult with a counselor for specific information and develop an educational plan to ensure that this degree would be the most beneficial prior to transferring to the University of their Choice. Students can also access information on www.assist.org.

Psychology

Psychology AA-T Degree

The Associate in Arts in Psychology for Transfer Degree is designed to provide students a seamless transfer to the California State University system. The degree is designed to prepare students for a baccalaureate degree in Psychology or similar major.

The AA-T in Psychology is designed to provide entry-level skills and knowledge for the student transferring to a four-year institution with a major in psychology. The psychology major requires 19 units in psychology and related fields. Psychology is the scientific study of behavior and mental processes. Course work in this program will provide a better understanding of human behavior in the areas of biological psychology, life-span development, states of consciousness, learning, memory, intelligence, personality, abnormal behavior, therapy, and social psychology. The psychology major prepares students for four-year programs with emphasis in psychology, counseling, child development, educational psychology, education, social work, sociology, human services, and nursing.

Program student learning outcomes:

1. Students will differentiate between scientifically derived knowledge versus pseudoscience within the field of psychology.
2. Students will compare and contrast the major theoretical perspectives in psychology.
3. Students will define basic psychological terminology regarding behavior, cognition and emotion and be able to express it clearly when writing or speaking about psychology.
4. Students will evaluate psychological data, use the scientific method, draw reasonable conclusions and apply these to personal, community and scientific problems
5. Students will employ psychological principles that lay the foundation for life-long personal growth and development of interpersonal and social skills.
6. Students will demonstrate appropriate interpersonal and social skills in interactions with a diverse population using principles of equity, justice and inclusion.

Students must meet the following requirements to qualify for an Associates for Transfer Degree (ADT):

- Complete 60 semester units or 90 quarter units that are eligible for transfer to the California State University (CSU).
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtain a minimum grade point average of 2.0.
- Minimum grade of "C" for each course in the major.
- Completion of CalGETC Requirements with a minimum grade of "C".

Recommended Course Sequence: Psychology AA-T Degree

This program has 50 percent or more of the the major courses available via distance education/online

Course #	Title	Units
Required Core Courses (10 units)		
PSYC C1000	Introduction to Psychology	3
PSYCH 006 .	Research Methods in Psychology	3
STAT C1000	Introduction to Statistics	4
Pluse 3 units from the courses listed below:		
BIO 010	Fundamentals of Biology	3
PSYCH 005 .	Biological Psychology	3
Pluse 3 units from the courses listed below:		
Any course not already taken above.		
PSYCH 003 .	Developmental Psychology	3
Pluse 3 units from the courses listed below:		
Any course not already taken above.		
PSYCH 002 .	Abnormal Psychology	3
PSYCH 004 .	Personal Psychology	3
PSYCH 029 .	Introduction to Sport & Exercise Psychology	3
	Total Major Units.	19
	Units that may be double-counted as GE.	9
	General Education (Cal-GETC) Units.	34
	Elective Units.	16
	Total Degree Units	**60**

Public Health

The Associate in Science in Public Health for Transfer prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree. Please consult a counselor regarding specific course requirements for your transfer institution. Completing the AS-T degree also provides a seamless transfer to the California State University (CSU) system, although not to a particular campus or major. Students pursuing the AST in Public Health may be interested in a baccalaureate degree in Health Science with a variety of options such as Health Education, Public Health, Community Health, Health Promotion and Disease Prevention, Public Health Promotion, Kinesiology, or Collaborative Health and Human Services. Upon completing the AS-T in Public Health degree, students will be able to articulate knowledge of the scientific foundations of Public Health and distinguish between public health and personal health. This major prepares students for careers in a variety of health professions at local, state, and federal health agencies. In addition, students may be interested in research, education, emergency response preparedness, health insurance, and many other fields.

Program Student Learning Outcomes Lorem ipsum dolor sit amet, consectetuer adipiscing elit.

1. Students will communicate strategies or tactics to improve health inequalities.
2. Students will evaluate sources of consumer health information.
3. Students will communicate individual behaviors that influence health and wellness.
4. Students will apply scientific knowledge and evidence-based research findings to community and individual health issues.

Students must meet the following requirements to qualify for an Associates for Transfer Degree (ADT):

- Complete 60 semester units or 90 quarter units that are eligible for transfer to the California State University (CSU).
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtain a minimum grade point average of 2.0.
- Minimum grade of "C" for each course in the major.
- Completion of CalGETC Requirements with a minimum grade of "C".

Recommended Course Sequence: Public Health AS-T Degree

Course #	Title	Units
Required Core Courses (16 Units):		
HE 035	Personal Health and Hygiene	3
HS 040	Introduction to Public Health	3
HS 045	Drugs, Health, and Society	3
HS 048	Social Determinants of Health, Disparities and Equities	3
STAT C1000	Introduction to Statistics	4
Plus 1 course (3 units) from the courses listed below:		
BIO 010	Fundamentals of Biology	3
BIO 015	Biology for Education	3
Plus 1 course (4-5 units) from the courses listed below:		
BIO 032	Human Anatomy	4
BIO 035	Human Physiology	4
BIO 038	Microbiology	4
CHEM 001A	General Chemistry I	5
CHEM 002A	Introductory Chemistry	4
	Total Major Units	23-24
	Units that may be double-counted as GE	9-13
	General Education (Cal-GETC) Units	34
	Elective Units	12-16
	Total Degree Units	**60**

Smart Agriculture

The Smart Agriculture certificate of achievement blends technical proficiency with agricultural expertise, enabling students to develop the knowledge, skills, and abilities needed for success in the rapidly evolving intersection between technology and agriculture. This program will help students develop effective communication skills, foundational agronomic knowledge, critical thinking, and the application of cutting-edge technologies to solve real-world problems.

Program Student Learning Outcomes

1. Students will communicate technical information and work related concepts effectively through professional written and oral communication.
2. Students will describe basic agronomic concepts of soil, tillage, fertilizers, pest control, and crop production.
3. Students will solve problems using critical thinking and troubleshooting skills individually or in a team environment.
4. Students will explore new technologies and apply them to current production issues.

For Gainful Employment information please visit:

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Career and employment information may be obtained through:

- O*Net, www.onetonline.org
- Labor Market, California Employment Development Department, www.labormarketinfo.edd.ca.gov

Recommended Course Sequence: Smart Agriculture Cert.

Course #	*Title*	*Units*
Required Core Courses (15 Units)		
AGBUS 015	Computer Application to Agriculture	3
CRPSCI 001	Introduction to Plant Science	3
CRPSCI 006	Introduction to Precision Agriculture	3
CRPSCI 008	Applications of Geospatial Technology	3
AET 021	Ag-Irrigation Management	3
	Total	**15**

Sociology

Sociology AA-T Degree

The Associate in Arts for Transfer in Sociology is designed to provide students with a seamless transfer to the California State University. This degree provides students with lower-division courses and comprehensive knowledge of the scientific study of human social life. This degree exposes students to the core principles, theoretical perspectives in sociology and to sociological concepts through the analysis of social phenomena. Students will learn to communicate effectively about social issues relating to various groups of people and identify group/cultural influences. Additionally, this degree will educate students on sociological topics from a scientific perspective, using systematic investigation and critical thinking methods.

Program student learning outcomes:

1. Students will apply and interpret sociological literacy underscoring the centrality of race, class, and genderin society including multicultural, cross-cultural, and cross-national content in sociological analysis.
2. Students will apply and formulate higher order critical thinking skills using major concepts and theoretical perspectives in sociological analysis through written and oral communication.
3. Students will apply and appraise an empirical base of sociology across several methodologies, posing sociological questions, developing theoretical explanations, and using primary and secondary data as supporting evidence.
4. Students will distinguish the interpersonal, institutional, cultural, and structural mechanisms that produce and maintain inequality.

Students must meet the following requirements to qualify for an Associates for Transfer Degree (ADT):

- Complete 60 semester units or 90 quarter units that are eligible for transfer to the California State University (CSU).
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtain a minimum grade point average of 2.0.
- Minimum grade of "C" for each course in the major.
- Completion of CalGETC Requirements with a minimum grade of "C".

Recommended Course Sequence: Sociology AA-T Degree

This program has 50 percent or more of the the major courses available via distance education/online

Course #	Title	Units
Required Core Courses (10 units)		
SOC 001	Introduction to Sociology	3
SOC 002	Critical Thinking and Social Problems	3
STAT C1000	Introduction to Statistics	4
Pluse 6 units from the courses listed below:		
SOC 003	Marriage and Family Relations	3
SOC 005	Cultural Sociology	3
AOJ 029	Criminology	3
Pluse 3 units from the courses listed below:		
Any courses not taken from "Plus 6 Units" list above...		
ES 001	Introduction to Ethnic Studies	3
PSYC C1000	Introduction to Psychology	3
SW 020	Introduction to Social Work and Human Services	3
	Total Major Units..	19
	Units that may be double-counted as GE....................................	9
	General Education (Cal-GETC) Units.......................................	34
	Elective Units...	16
	Total Degree Units	**60**

Transfer Studies: Cal-GETC

The California General Education Transfer Curriculum (Cal-GETC) provides students the ability to fulfill in-state, public university lower-division general education requirements before transferring.

Although the certificate recognizes the completion of lower-division general education requirements, it does not guarantee admission to a specific campus within the CSU or UC systems, nor does it guarantee admission to a specific major. Some majors and colleges may require a different lower division preparation and/or a higher GPA than is necessary for this certificate. Students can use www.assist.org to review major preparation courses and are advised to see a counselor for educational planning for successful admission to the university of their choice.

With the exception of Laboratory Science (Area 5C), a single course can only be used to satisfy one General Education requirement. A grade of "C" or better is required in all courses.

Program Student Learning Outcomes

1. Students will demonstrate critical thinking through analysis of literary works and written compositions.
2. Students will develop the ability to develop, present, use, and critique quantitative arguments.
3. Students will analyze and appreciate works of philosophical, historical, literary, aesthetic, religious and cultural importance.
4. Students will gain a basic knowledge of the cultural and social organizations in which they exist as well as the behavior and social organizations of other human societies.
5. Students will develop a comprehension of the basic scientific concepts of the physical and biological aspects of the world as well as an under-standing of science as a human endeavor including its limitations and power.
6. Students will critically review how struggle, resistance, racial and social justice, solidarity, and liberation are relevant to current and structural issues

Course #	*Title*	*Units*

Required Core Courses (33-41 Units)

Area 1A: English Composition.	3
Area 1B: Critical Thinking and Composition.	3
Area 1C: Oral Communication.	3
Area 2: Mathematical Concepts and Quantitative Reasoning.	3-6
Area 3A: Arts.	3
Area 3B: Humanities.	3
Area 4: Social and Behavioral Sciences (2 courses from 2 different disciplines).	6
Area 5A: Physical Science.	3-5
Area 5B: Biological Science.	3-4
Area 5C: Laboratory (if not fulfilled with course from Area 5A or 5B).	0-1
Area 6: Ethnic Studies.	3
Total	**33-41**

Unmanned Aerial System Remote Pilot – Non-Credit

Unmanned Aerial Systems Remote Pilots Certificate of Completion prepares students to operate an Unmanned Aerial System (UAS) safely for commercial purposes. Courses within this program provide the fundamental knowledge and skills of FAA regulations and guidelines, flight operations, and safety, in order to take and pass the Part 107 certification test. These courses support generalized skills for use of a UAS within the agriculture industry, including capture of imagery and spraying of crop products.

Program Student Learning Outcomes

1. The student will understand the FAA's regulations and guidelines for safe and proper flight operation.

Recommended Course Sequence: Unmanned Aerial System Remote Pilot Non-Credit Cert.

Course #	*Title*	*Units*
Required Core Courses		
NC 180	Survey of Unmanned Aerial Systems	N/A
NC 181	Unmanned Aerial Systems Flight Procedures	N/A
NC 188	Applications of Uas in Agriculture	N/A
	Total Hours	**54**

Welding Technology

Welding Technology Certificate of Achievement

The Welding Technology program is a Certificate of Achievement program designed to prepare students for a career in welding. Program performance standards for certification will be in accordance with those set forth by the National Center for Construction and Research (NCCER), the American Welding Society (AWS), and the American Society of Mechanical Engineers (ASME). Career opportunities for certified welders exist in oil production and maintenance, agriculture, fabrication, manufacturing and construction. Laboratory work is completed in a modern and well equipped welding shop.

Program student learning outcomes:

1. Students will perform SMAW using the flat, horizontal, uphill, and overhead positions.
2. Students will perform both GMAW and FCAW using the flat, horizontal, and overhead positions.
3. Students will perform pipe welding using both SMAW and GMAW process.
4. Students will understand AWS WPS, welding terminology, drawings, and symbols used in the welding industry.
5. Students will understand the importance of work and tool safety.
6. Students will perform Oxy-Fuel torch cutting and gouging.

For Gainful Employment information please visit:

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Recommended Course Sequence: Welding Technology Cert.

Course #	Title	Units
Required Core Courses (18.5 Units)		
IMT 060	Industrial Core	3
WT 070	Introduction to Certified Welding	2.5
WT 071	Beginning SMAW	3
WT 072	Advanced SMAW	3
WT 073	Introduction to Metallurgy and Weld Symbols	1.5
WT 074	GMAW and FCAW: Plate	3
WT 075	SMAW Pipe Welding	2
WT 076	Welding Certification Preparation	0.5
	Total	**18.5**