2024–2025 Catalog Addendum I
Fall 2024

This College of the Desert Catalog Addendum represents course and program additions made since the last publication of the Catalog. Included in this Addendum are new and modified courses, certificates, and programs. These additions supplement what is printed in the current Catalog and are effective as of Fall 2024 unless otherwise noted. Instructions for understanding this addendum are as follows: <u>underline</u> indicates new material and ~~strikethroughs~~ identify deleted content.

Open Enrollment Policy - Unless specifically exempted by statute, every course, course section, or class which is to be reported for state apportionment, is open for enrollment, and participation by any person who has been admitted to the College and who meets the student success requirements.

PROGRAMS OF INSTRUCTION

CREDIT MODIFIED PROGRAMS

Anthropology AA-T Degree

Anthropology is the comparative study of human societies and cultures. Anthropology concerns all aspects of being human, throughout all time and worldwide. It is an examination of human nature, human society, and human past. The study of Anthropology provides an understanding of the globally interconnected world in which we live, the human past and present, and the unity and diversity that characterize the human species. Anthropology prepares students for dealing with the challenges of an increasingly international economy, globally connected communities, and multicultural peoples.

The three anthropology courses offered at College of the Desert (Introduction to Cultural Anthropology, Introduction to Physical Anthropology, Introduction to Archaeology/ Prehistory introduce fundamental concepts, theories, methods, data, and references in ways that are exciting and informative for students. The **Associate in Arts in Anthropology for Transfer**, also called the Anthropology AA-T Degree, requires students to complete 60 CSU transferable units including completion of CSU GE or IGETC and 18-20 units in the major with a cumulative GPA of 2.0 or better. Title 5 requires that students must earn a "C" or better in all courses required for the major or area of emphasis. There are no additional graduation requirements. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

Program Learning Outcomes
Upon satisfactory completion of this program students will be able to:

- Identify and analyze key concepts and theories about human evolution, human variation, and cultural development.
- Critique generalizations and popular opinion about human behavior and society, distinguishing opinion, values, and pseudoscience from scientific observations and study.
- Understand and think critically about different cultures (including topics such as race, gender, and class) and their influence on human development, societies, and globalization.

Program Requirements		Units
ANTH 001	Human Evolution: Introduction to Biological Anthropology	3
ANTH 002	Cultural Anthropology	3
ANTH 003	Archaeology, Introduction to Prehistory	3

List A – Select one course from the following (3-4 units):

MATH 014	Statistical Methods	4
SOC 003	Fundamentals of Statistics	3

List B – Select one course from the following (3-4 Units):

BI 013	Human Anatomy and Physiology I	4
G 001	Physical Geology	4
G 005	Environmental Geology	4
G 010	The Earth Sciences	4
NR 021	Introduction to GIS	3
PHIL 018	Philosophy of Science	3
PSY 025	Intro to Research Methods for Soc Sciences	3

List C - Select one course from the following (3 Units):

GEOG 002	Cultural Geography	3
PHIL 012	Religions of the World	3
SOC 001	Introductory Sociology	3
SOC 014	Introduction to Race & Ethnicity	3
SOC 015	Mexican American Culture & Society	3

Required Subtotal	**18-20**
Select one of the following: [1]	37-39
CSU General Education	
IGETC Pattern	
Transferable Electives (as needed to reach 60 transferable units)[2]	
DEGREE TOTAL	**60**

[1] Units for the major may be double counted for CSU GE or IGETC, confer with Counselor.
[2] Elective units to reach 60-unit total must be CSU transferable, confer with Counselor.

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Automotive Technology AS Degree

The **Associate of Science in Automotive Technology** degree program offers students the opportunity to learn the academic and occupational skills needed by entry-level technicians in the automotive industry. The degree is aligned with the standards of the National Automotive Technicians Education Foundation (NATEF). The program is NATEF certified, a member of the National Coalition of Certification Centers (NC3), and a Local Mopar College Automotive Program (Mopar CAP Local).

The curriculum was developed with industry guidance and prepares students with foundation courses. A key focus is on electronic technologies and other advanced diagnostic technologies used in light-duty vehicles currently produced and serviced by the major manufacturers.

The degree program's emphasis is on key vehicle systems including: electrical, engine performance, emissions, braking, steering & suspension, engine, transmission, and heating and air conditioning. Within each system, the student is taught to understand its operation, function, maintenance, repair, and diagnosis. In addition to the degree option, the automotive technology certificate programs are designed to be as flexible as possible in offering students and working technicians the opportunity to gain the needed knowledge and skills with a short term commitment as students' progress through the program, they will be exposed to other aspects of the transportation industry that include personal planning, development of individual and team working skills, development of advanced technical knowledge, health and safety, and environmental issues.

Program Learning Outcomes
Upon satisfactory completion of this program students will be able to:

- Safely work in an automotive shop environment while performing maintenance, diagnosis and repair on gasoline powered vehicles.
- Perform basic to intermediate maintenance, diagnosis and repair of gasoline powered vehicles.
- Prepare for the applicable Student Automotive Service Excellence (ASE) Exams.

Program Requirements		**Units**
AUTO 010	Introduction to Automotive Technology	4
AUTO 011B	Auto Electronics & Electrical Systems	4
AUTO 011C	Advanced Automotive Electrical Systems	4
AUTO 012A	Automotive Suspension & Steering Systems	4
AUTO 013A	Automotive Braking Systems	4

AUTO 014A	Automotive Engine Management	4
AUTO 015	Automotive Engine Diagnosis & Repair	4
AUTO 020A	Automotive Quick Service	3
AUTO 021A	Automotive Diagnosis & Troubleshooting	2
AUTO 095A	Automotive Technology Work Experience[1]	2

Electives – Select 6 units from the following:

AUTO 014B	Advanced Engine Management	4
AUTO 016	Automotive Manual Transmissions & Drive Train Systems	4
AUTO 017	Automatic Transmissions & Transaxles	4
AUTO 018	Automotive Heating, Ventilation & Air Conditioning	4
AUTO 043A	Intro to Hybrid, Electric & Fuel-Cell Vehicle Technology	3
AUTO 043B	Hybrid, Fuel-Cell & Electric Vehicle Diagnosis & Repair	3
AUTO 045A	Intro to Alternative Fuel Vehicles	2
AUTO 054D	Smog Check Inspector Training Level 1&2	4
AUTO 054E	Smog Check Diagnostic & Repair Technician	3
AUTO 093A	Intro to Light & Medium Duty Diesel Systems	2
AUTO 093B	Light/Medium Duty Diesel Systems	4
AUTO 093C*	Advanced Light/Medium Duty Systems	4
AUTO 093D*	Diesel Diagnostics & Troubleshooting	2
AUTO 095A	Automotive Technology Work Experience[1]	1-2
ACR 060	Air Conditioning & Refrigeration I	3
ACR 064	Air Conditioning & Refrigeration Electricity I	3
WELD 011*	Shielded Metal Arc Welding	3
WELD 012*	Basic Gas Metal Arc Welding	3

Required Subtotal	**35**
Elective Subtotal	6
COD General Education Pattern	18
Kinesiology Activities	2
DEGREE TOTAL	**61**

[1] For extenuating circumstances, as deemed by the automotive advisor, work experience may be fulfilled through a special shop project or an appropriate elective.

*This program is going through the approval process. AUTO 093C, AUTO 093D, WELD 011 and WELD 012 will be removed from this program and several other courses will be added when approved.

Computer Information Systems AS Degree (transfer preparation)
The Associate of Science degree in Computer Information Systems for Transfer Preparation prepares students to pursue a Bachelor of Science (BS) degree in Information Systems and Technology (IST) at California State University San Bernardino (CSUSB). CSUSB offers different BS and MS in Cyber Security and MIS, among others.

Program Learning Outcomes
Upon satisfactory completion of this program students will be able to:

- Exhibit basic understanding of information technology and information systems challenges and opportunities from a multi-faceted perspective of hardware, software, databases, telecommunications, people, and procedures.
- Demonstrate the ability to locate, critically evaluate and solve business problems with technology solutions using qualitative and quantitative information.

- Demonstrate a fundamental ability to identify and analyze user needs in the selection, creation, evaluation and administration of computer-based systems.
- Prepare students for transfer into a four-year institution.

Program Requirements   **Units**

Course	Title	Units
CIS 010	Computer Literacy	4
CIS 053	Computer Networks and Security	3
CIS 060	Information Systems Security	3
CIS 080	Database Management Systems	3
CIS 087	Introduction to Programming Using Python	3
SOC 003	Fundamentals of Statistics	3
BUMA 020A	Business Law I	3

Select one of the following: **37-39**

CSU General Education
IGETC Pattern
Kinesiology Activities   2

                                        DEGREE TOTAL   **61-63**

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Culinary Management AS Degree

The **Associate of Science in Culinary Arts Management** program at College of the Desert provides training for management careers in the food service and lodging industries, one of the fastest growing sectors in today's job market. The program emphasizes management and computer skills required for hotel and restaurant management, as well as solid training in intermediate level cooking and baking, safety and sanitation, food procurement and menu planning.

       Program Learning Outcomes
       Upon satisfactory completion of this program students will be able to:

- Recognize bakeshop ingredients including all types of flours, sugars, shortenings and fats.
- Analyze basic cooking methods including the preparation of pantry items.
- Demonstrate the application of cooking principles to the preparation of pantry items.
- Identify and describe the basic elements of design and planning a food service operation with respect to sanitation, safety, and work simplification.
- Identify the menu document as a production tool and financial guide for food service operations.

Program Requirements   **Units**

Course	Title	Units
CART 010	Food Procurement & Cost Control	3
CART 011*	Menu Planning	3
CART 020	Baking and Pastries I	3
CART 040	Culinary Fundamentals	3
CART 060	Sanitation and Safety	2
BUHM 050	Introduction to the Hospitality Industry	3
BUHM 063*	Hotel & Restaurant Operations	3
BUMA 001	Principles of Management	3
HS 013	General Nutrition	3
HS 014	Principles of Food	3

Electives – Select 11 units from the following:

Course	Title	Units
BUMA 010	Introduction to Business	3

BUMA 027	Marketing	3
BUMA 028	Introduction to Entrepreneurship	3
BUMA 029	Retail Merchandise Management	3
CART 002	Kitchen Basics	0.5
CART 021	Baking and Pastries II	3
CART 030	Whole Food Natural Cooking	4
CART 042	Catering and Production Cooking	3
CART 043	Hors d'oeuvres & Appetizers	2
CART 044	Charcuterie	2
CART 045	Deli and Lunch Cookery	2.5
CART 046	Breakfast Cookery	1.5
CART 064	Taste, Smell & Flavor	2
CART 073	Culture and Cuisine	2
CART 074	Advanced Cooking	2
CART 095A	Culinary Arts Work Experience	1-8
CIS 010	Computer Literacy	4

Required Units	**40**
COD General Education Pattern	18
Kinesiology Activities	2
DEGREE TOTAL	**60**

*This program is going through the approval process. CART 011 and BUHM 063 will be removed from this program along with the addition of some other courses when approved.

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Digital Design Studies AA Degree

Digital Design Studies is the vehicle by which business communicates visually by infusing art and technology to communicate ideas through images and other communications media. The graphic designer and content creator are often working closely with marketing departments to develop and implement branding strategies, communications, and presence, including many other related business activities. Students working toward their Associates degree in this program study computer graphic design for print, web, and video. This cross-discipline program is designed to prepare students for employment in the diverse fields of Web Design, Graphic Design, Motion Graphics, and Interactive Multimedia. Career paths may also lead to working in advertising, marketing or independently. Careers in the discipline that generally require graduate-level degrees include college teacher, video editor, web developer, creative director, and art director.

Program Learning Outcomes
Upon satisfactory completion of this program students will be able to:

- Employ research, ideation, development, analysis, and prototyping to create evocative and engaging work.
- Create appropriate typographic solutions for a variety of design situations.
- Work collaboratively within a creative team.
- Students will have the skills necessary to get entry level jobs or better in areas related to graphic design, marketing and advertising.

Program Requirements
Required Core Courses

DDP 110	Graphic Design	3
DDP 111	Advertising Design	3
DDP 112	Digital Typography	3
CIS 087	Introduction to Programming Using Python	3

Choose one from the following:

DDP 100	Introduction to Digital Art & Media	3
DDP 101	Digital Imaging	3
DDP 102	Digital Illustration	3
DDP 103	Publication Design & Production	3

Choose one from the following:

DDP 120	Video Post-Production	3
DDP 121	Motion Graphics	3
DDP 144	3D Animation	3

Choose two from the following:

ARTH 002A	History of Art I: Prehistoric to Medieval	3
ARTH 002B	History of Art II: Renaissance to Contemporary	3
ARTH 002C	History of Modern Art	3
Required Subtotal		**24**

Electives - Choose six units from the following:

ART 001A	Beginning Drawing & Composition	3
ART 003A	Basic Design & Color	3
ART 005A	Beginning Figure Draw	3
ART 014A	Beginning Screen Printing	3
ART 019	Introduction to Painting	3
ART 025A	Beginning Acrylic Painting	3
ART 030A	Beginning Black & White Photography	3
BUAC 020A	Financial Accounting	4
BUMA 010	Introduction to Business	3
BUMA 026	Social Media Marketing	3
DDP 095A	Digital Design & Production Work Experience	1-8
DDP 113	Design for Social Change	3
DDP 116	Social Media Design	3
DDP 130	Digital Darkroom	1.5
DDP 131	Digital Photography	3
DDP 132	Commercial Photography	3
DDP 140	Character Animation	3
DDP 142	Digital Storyboarding	3
DDP 150	Web Design & Development	3
DDP 151	User Experience Design	3
DDP 195	Business Practice and Portfolio Preparation for Creatives	3
ECON 001	Principles of Macroeconomics	3
FILM 001	Introduction to Film	3
FILM 003	Screenwriting	3
FILM 002A	Film Production I: Basic Film Production	3
FILM 007	Film Editing	3
FILM 012A	Creative Content - Basic	1
J 004A	Basic Newspaper & Internet Production	3
J 010	Magazine Writing & Production	3

Select one of the following: **37-39**

   CSU General Education

   IGETC Pattern

   Kinesiology Activities   2

                                                   DEGREE TOTAL   **60**

Elementary Teacher Education AA-T Degree
The **Associate in Arts in Elementary Teacher Education for Transfer**, also called the Elementary Teacher Education AA-T Degree, is designed to prepare students for a seamless transfer with junior status to a CSU campus in a program or major in Liberal Studies, Integrated Teacher Education Programs for completion of a baccalaureate degree. Upon successful completion of courses leading to the Elementary Teacher Education AA-T Degree the student will be able to know and understand the established as well as recent theories of child development and apply human development theory to observation and practice. The successful student will be able to analyze and think critically about the teacher's role in early learning and development settings.

This degree requires students to meet both of the following requirements:

1. Completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental GE Transfer Curriculum (IGETC) or the California State University GE-Breadth Requirements (CSU GE-B).
   - A minimum of 18 semester units in a major or area of emphasis. All courses in the major or area of emphasis must be completed with a grade of "C" or better.
2. Obtainment of a minimum grade point average of 2.0.

The Elementary Teacher Education AA-T *Degree* requires students to complete 60 CSU transferable units, including completion of CSU GE-B and 55 units in the major with a cumulative GPA of 2.0 or better. Units for the major may be double-counted for CSU GE-B only (not IGETC). Elementary Teacher Education AA-T degree works only with the CSU General Education pattern. There are no additional graduation requirements. Students planning to complete the degree should consult with a counselor for more information on university admission and transfer requirements.

Program Learning Outcomes
Upon satisfactory completion of this program students will be able to:

- Students will be able to transfer to a CSU in a Liberal Studies Teacher Education Program.

Program Requirements   **Units**

EDUC 001	Introduction to Elementary Classroom Teaching	3
BI 004	Elements of Biology	4
CDE 101	Child Growth & Development	3
CH 003	Introductory General Chemistry	4
COMM 001	Introduction to Public Speaking	3
ENG 001A	English Composition	4
ENG 002	Argumentative Writing and Critical Thinking through Literature	4
G 010	The Earth Sciences	4
GEOG 007	Regional Geography	3
HIST 003	History of World Civilization I	3
HIST 017	US History through Reconstruction	3
MATH 011	Math Concepts for Elementary School Teachers - Number Systems	4
PH 001	Introductory Physics	4
PS 001	Introduction to Government	3
SOC 004	Sociological Analysis & Critical Thinking	3

Select one course from the following (3 units):

ARTH 010	Understanding Art	3
MUS 010	Introduction to Music	3
TA 001	Introduction to Theatre	3

Required Subtotal   **55**
  CSU General Education Pattern[1]   39
  Transferable Electives (as needed to reach 60 transferable units)[2]

                                                                    DEGREE TOTAL   **60**

[1] Units for the major may be double counted for CSU GE only (not IGETC), confer with Counselor.
[2] Elective units to reach 60-unit total must be CSU transferable, confer with Counselor.

Hospitality Management AS Degree (employment preparation)

Hospitality Management is the study of different aspects of management and leadership as they relate to the hospitality industry. Included in the hospitality industry are such sectors as hotels, restaurants, travel services, gaming and entertainment, recreation, managed services, and special events. The **Associate of Science in Hospitality Management** for Employment Preparation will allow graduates of the program to compete for entry level and sometimes mid-level management positions, such as Reservations Manager, Executive Housekeeper, Catering Sales Manager, and Sous Chef. Students who wish to pursue education beyond the AS Degree for Employment Preparation should consider the Hospitality AS AA Degree and Transfer Preparation. Even students who choose not to major in hospitality management find that course work in the field can improve their ability to think critically and solve complex problems, be more aware of the personal abilities/skills and simply manage more effectively.

> **Program Learning Outcomes**
> Upon satisfactory completion of this program students will be able to:
>
> - Examine the various hospitality operations segments.
> - Demonstrate management/leadership behaviors and theories, diversity, and progressive solutions to workplace problems as they relate to the hospitality industry.
> - Analyze the strategies used to plan, implement, and evaluate Food and Beverage operations to increase profits and guest satisfaction.

Program Requirements   **Units**

BUHM 047	Hospitality Law	3
BUHM 050	Introduction to the Hospitality Industry	3
BUHM 051	Introduction to Food and Beverage Management	3
BUHM 054	Hospitality Supervision	3
BUHM 095A	Hotel & Restaurant Management Work Experience (maximum of 3 units may be used for work experience)	1-3
CART 040	Culinary Fundamentals	3

General Business Management – Select 3 courses from the following (9-10 units):

BUMA 027	Marketing Principles	3
BUMA 032	Human Relations in the Workplace	3
BUMA 094	Business Communications	3
or COMM 001	Introduction to Public Speaking	3
or ENG 001A	English Composition	4

Accounting/Financial – Select 1 course from the following (3-4 units):

BUAC 020A	Financial Accounting	4
BUAC 020B	Managerial Accounting	4
BUAC 050	Accounting in the Business Environment	3
BUAC 051	Accounting for Entrepreneurs & Business Managers	3

Office Technology – Select 4 units from the following:

AIS 002A	Introductory Microsoft Outlook	1
AIS 003A	Introductory Microsoft Word	1

AIS 004A	Introductory PowerPoint	1
AIS 007A	Introductory Excel	1
CIS 010	Computer Literacy	4

Employability Soft Skills – Select 1 - 3 units from the following:

AIS 012	Office Support Skills	3
EMP 010	New World of Work Skills: Adaptability	0.5
EMP 011	New World of Work Skills: Self-Awareness	0.5
EMP 012	New World of Work Skills: Digital Fluency	0.5
EMP 013	New World of Work Skills: Communication	0.5
EMP 014	New World of Work Skills: Collaboration	0.5
EMP 015	New World of Work Skills: Empathy	0.5
EMP 016	New World of Work Skills: Analysis and Solution Mindset	0.5
EMP 017	New World of Work Skills: Resilience	0.5
EMP 018	New World of Work Skills: Entrepreneurial Mindset	0.5
EMP 019	New World of Work Skills: Social Diversity/Awareness	0.5

Required Subtotal		**33-39**
Electives (with Advisor Approval)		7
COD General Education Pattern		18
Kinesiology		2
	DEGREE TOTAL	**60-66**

Kinesiology AA-T Degree

Kinesiology is the study of movement as it relates to physical activity, health, disease prevention, exercise, and sport. Kinesiology majors are grounded in an interdisciplinary body of knowledge which encompasses the biological, psychological, physical, and social sciences. They use this knowledge to understand how the human body responds to movement, exercise, exercise training, and overall fitness. Employment opportunities include health care, coaching, sports officiating, athletic training, and education. A baccalaureate degree in Kinesiology can serve as the foundation to Physical Therapy, Occupational Therapy, or medical school.

The Associate in Arts Degree in Kinesiology for Transfer, also called Kinesiology AA-T, will be awarded upon completion of course work totaling 60 California State University (CSU) transferable units including the major requirements and the IGETC or CSU GE requirements with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of "C" or better. Students completing this degree are not required to fulfill additional COD graduation requirements.

    Program Learning Outcomes

    Upon satisfactory completion of this program students will be able to:

- Students completing the Associate in Science in Kinesiology Transfer Degree will be prepared to transfer to a related major in the California State University (CSU) system.
- Effectively communicate in writing and verbally on topics in Kinesiology.
- Utilize their experiences across a variety of health related and skill-based activities to inform their scholarship and practice in the sub disciplines in Kinesiology.
- Identify and analyze social justice and equity issues related to Kinesiology for diverse populations.
- Explain, identify, and/or demonstrate the theoretical and/or scientific principles that can be used to address issues or problems in the sub-disciplines in Kinesiology.

Program Requirements		**Units**
Required Core Courses		
KINE 008	Introduction to Kinesiology	3
BI 013	Human Anatomy and Physiology I	4
BI 014	Human Anatomy and Physiology II	5

Movement Based Courses
Select one (1) course maximum from any three (3) of the following areas (3 units):

Aquatics (1-2 units)

KINE 046	Endurance Training (Running/Swimming/Cardio-Respiratory)	2
KINE 082	Swimming	1
KINE 083	Swimming & Running for Triathletes	1
KINE 084	Aquatic Crosstraining	1
KINE 093	Water Fitness	1

Combatives (1 unit)

KINE 057	Fencing	1
KINE 078	Martial Arts	1

Dance (1 unit)

KINE 051	Dance, Aerobic	1
KINE 053	Dance, Jazz	1
KINE 092	Yoga for Dancers	1

Fitness (1-2 units)

KINE 041	Core Conditioning	1
KINE 046	Endurance Training (Running/Swimming/Cardio-Respiratory)	2
KINE 047	Body Sculpt & Tone	1
KINE 068	Jogging, Powerwalking & Running	1
KINE 071	Kickboxing Aerobics	1
KINE 072	Pilates Mat Work	1
KINE 073	Pilates for Dance	1
KINE 083	Swimming & Running for Triathletes	1
KINE 094	Personal Fitness	1
KINE 096	Weight Training	1
KINE 098A	Yoga I-Fundamentals of Yoga	1
KINE 098B	Yoga II-Beginning Yoga	1
KINE 098C	Yoga III-Intermediate Yoga	1
KINE 099	Vinyasa Power Yoga	1

Individual Sports (1 unit)

KINE 043	Badminton	1
KINE 057	Fencing	1
KINE 062	Golf	1
KINE 063	Golf: The Short Game	1
KINE 086	Tennis	1
KINE 088	Strokes & Strategies for Tennis Play	1

Team Sports (1 unit)

KINE 045	Basketball	1
KINE 079	Soccer	1

| KINE 087 | Pickleball | 1 |
| KINE 091 | Volleyball | 1 |

List A – Select 2 courses from the following (6-9 units):

CH 001A	General Chemistry I	5
KINE 001	First Aid and Safety	3
PH 002A	College Physics I	4
SOC 003	Fundamentals of Statistics	3
or MATH 014	Statistical Methods	4

Required Subtotal		**21-25**
Select one of the following: [1]		37-39
CSU General Education		
IGETC Pattern		
Transferable Electives (as needed to reach 60 transferable units)[2]		
	DEGREE TOTAL	**60**

[1] Units for the major may be double counted for CSU GE or IGETC, confer with Counselor.
[2] Elective units to reach 60-unit total must be CSU transferable, confer with Counselor.

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Nutrition and Dietetics AS-T Degree

The **Associate in Science in Nutrition and Dietetics for Transfer**, also called the Nutrition and Dietetics AS-T Degree, introduces students to the principles and methodologies used in the study of nutrition and dietetics. Students will acquire the foundational knowledge necessary to pursue post-secondary degrees in nutrition and dietetics. To earn an AS-T in Nutrition and Dietetics degree, a student must complete 60 semester units that are eligible for transfer to the California State University (CSU) system that consist of the Intersegmental General Education Transfer Curriculum (IGETC) pattern or CSU General Education breadth and a major of 18 units more. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning this AS-T degree will not be required to complete any other local graduation requirements. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major).

Program Learning Outcomes
Upon satisfactory completion of this program students will be able to:

- Explain the role of food and nutrients in the human life-cycle stages and nutrition-related chronic diseases by synthesizing relevant theories from the biological and physical sciences.
- Demonstrate basic food science principles in food procurement, preparation, and safety for individuals, families, and communities.
- Explain social, ethnic and/or environmental dimensions within nutrition and the life sciences.
- Be eligible and prepared for transfer to related health science programs.

Program Requirements		**Units**
HS 013	General Nutrition	3
BI 015	General Microbiology	5
CH 001A	General Chemistry I	5
CH 001B	General Chemistry II	5
PSY 001	General Psychology	3
SOC 003	Fundamentals of Statistics	3
or MATH 014	Statistical Methods	4

Select one course from the following (3-4 units):

HS 014	Principles of Food	3
BI 004	Elements of Biology	4
CH 003	Introductory General Chemistry	4
CH 004*	Fundamentals of Chemistry (changed to CH 007)	4
CH 005	Bio-organic Chemistry	4
KINE 008	Introduction to Kinesiology	3
PSY 003	Developmental Psychology	3

Required Subtotal	**27-29**
Select one of the following:[1]	37-39
CSU General Education	
IGETC Pattern	
Transferable Electives (as needed to reach 60 transferable units)[2]	
DEGREE TOTAL	**60**

[1] Units for the major may be double counted for CSU GE or IGETC, confer with Counselor.
[2] Elective units to reach 60-unit total must be CSU transferable, confer with Counselor.

*This program is going through the approval process. CH 004 will be updated to CH 007 with 5 units when approved.

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Physics AS-T Degree

The **Associate in Science in Physics for Transfer**, also called the Physics AS-T Degree, is designed to prepare students for a seamless transfer with junior status to a CSU campus in a program or major in Physics for completion of a baccalaureate degree. Upon successful completion of courses leading to the Physics AS-T Degree the student will be able to know and understand Physics concepts, skills and application to attain upper division status in Physics at most 4-year institutions. This degree requires students to complete 60 CSU transferable units including completion of CSU GE or IGETC and 24 units in the major with a cumulative GPA of 2.0 or better. Title 5 requires that students earn a grade of "C" or better in all courses required for the major or area of emphasis. There are no additional graduation requirements. Students are advised to consult with a counselor to verify transfer requirements.

> **Program Learning Outcomes**
> Upon satisfactory completion of this program students will be able to:
>
> - Students will be prepared to transfer to a four-year university majoring in Physics or Astronomy.
> - Apply the scientific method of inquiry and use appropriate experimental techniques in the Physics and Astronomy laboratory setting to set up experiments; acquire, record, and analyze data; and formulate physical and astronomical conclusions from the data.
> - Use quantitative reasoning and critical thinking skills to solve problems in Physics and Astronomy.
> - Demonstrate knowledge and comprehension of fundamental concepts in Physics and Astronomy and develop a life-long appreciation and understanding of the role of Physics and Astronomy in everyday life.

Program Requirements		**Units**
PH 003A	Engineering Physics	4
PH 003B	Engineering Physics	4
PH 003C	Engineering Physics	4
MATH 001A	Calculus	4
MATH 001B	Calculus II	4

MATH 002A	Multivariate Calculus	4

Required Subtotal **24**
Select one of the following:[1] 37-39
  CSU General Education
  IGETC Pattern
  Transferable Electives (as needed to reach 60 transferable units)[2]
                               DEGREE TOTAL **60**

[1] Units for the major may be double counted for CSU GE only (not IGETC), confer with Counselor.
[2] Elective units to reach 60-unit total must be CSU transferable, confer with Counselor.

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Political Science AA-T Degree
Political Science is the scientific study of politics, structure of governments at the national, state and local levels, policy making and policy makers. As such, it encompasses a wide range of interdisciplinary subjects, including economics, history, law, and philosophy. One major concern of political science is educating each generation of how democracy works, what are its benefits relative to other governmental systems. Lacking such knowledge can threaten our very existence since democracy is dependent upon a well-informed and civic-minded citizenry. This degree is an excellent general preparation for careers in conflict resolution, criminal justice, diplomacy, civil service, education, elections, journalism, the practice of law, public administration and public policy, public service, and research. The **Associate in Arts in Political Science for Transfer**, also called the Political Science AA-T Degree, prepares students to transfer to CSU campuses that offer bachelor's degrees in Political Science. Students earning the Political Science AA-T Degree will be granted priority for admission as a Political Science major to a CSU, but not to a particular campus. This degree requires students to complete 60 CSU transferable units including completion of CSU GE or IGETC and 18-19 units in the major with a cumulative GPA of 2.0 or better. Title 5 requires that students earn a grade of "C" or better in all courses required for the major or area of emphasis. There are no additional graduation requirements. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

    Program Learning Outcomes
    Upon satisfactory completion of this program students will be able to:

- Students will demonstrate the ability to write, speak, and critically analyze complex political processes and government policies.
- Students will analyze and interpret texts, images, and experiences in order to understand political problems.

- Students will develop an original argument in response to a political science puzzle and propose theoretical and/or practical solutions.
- Students will utilize the methods and tools political scientists use to test their hypotheses and substantiate their claims.

Program Requirements **Units**

PS 001	Introduction to Government	3
SOC 003	Fundamentals of Statistics	3
or MATH 014	Statistical Methods	

List A – Select 2 courses from the following (6 units):

PS 002	Introduction to Comparative Governments	3
PS 003	Introduction to Political Theory	3
or PHIL 003	Introduction to Political Theory	
PS 004	Introduction to International Relations	3

List B – Select 2 courses from the following (6 units):

ANTH 002	Cultural Anthropology	3
ECON 001	Principles of Macroeconomics	3
HIST 017	US History through Reconstruction	3
PS 005	The American Presidency	3

Required Subtotal		**18-19**
CSU General Education Pattern[1]		37-39
IGETC Pattern		
Transferable Electives (as needed to reach 60 transferable units)[2]		
	DEGREE TOTAL	**60**

[1] Units for the major may be double counted for CSU GE only (not IGETC), confer with Counselor.
[2] Elective units to reach 60-unit total must be CSU transferable, confer with Counselor.

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Registered Nursing AS Degree

The Associate Degree Nursing Program prepares graduates to care for individuals in hospitals, long term care facilities, doctors' offices and clinics in a beginning staff nurse position. The curriculum consists of courses in general education and science in addition to prescribed nursing courses. Once accepted to the nursing program, the student will complete four semesters of nursing courses.

The nursing program is approved by the California Board of Registered Nursing.

College of the Desert is designated as a continuing education provider by the Board of Registered Nursing. The provider number is 00284.

Registered Nursing Course Sequence

Students can complete the nursing program in two years once accepted to the nursing program.

It is recommended that students interested in a Nursing degree see a counselor in the counseling department and read the information on the School of Health Sciences & Education webpage.

Program Entrance Requirements: Acceptance under the existing eligibility and selection criteria available on the School of Health Sciences & Education webpage. Program eligibility and selection processes are subject to change. Prospective students are encouraged to check the school web page periodically or call 760.773.2579.

Please note: Students are strongly encouraged to complete all general education courses prior to the program application. Licensure can be achieved when all courses required for the degree are completed.

Graduates eligible for Registered Nurse Licensing Examination in California. All courses must be completed with a grade of "C" or better.

Program Learning Outcomes
Upon satisfactory completion of this program students will be able to:

- Professionalism: demonstrate accountability for the delivery of nursing care while influencing the behaviors of others to achieve shared goals. Demonstrate the professional identity of the nurse.
- Evidence-Based Practice: assimilate clinical judgment, rooted in evidence-based practice, to provide nursing care at an entry level.
- Holistic Client-Centered Care: design client-centered care for individuals that recognizes the client as a full partner with individual preferences and beliefs.
- Communication: integrate communication principles to foster a respectful environment that supports shared decision-making in the efforts of improving client's optimal wellness.

- Safety: Competently manages all aspects of safety for clients through system effectiveness, individual performance, and quality improvement to minimize risk of harm to patients.

Program Requirements   Units

BI 013	Human Anatomy and Physiology I	4
BI 014	Human Anatomy and Physiology II	5
BI 015	General Microbiology	5
ENG 001A	English Composition	4
PSY 001	General Psychology	3
or PSY 003	Developmental Psychology	

Select one course from the following:
SOC 001	Introductory Sociology	3
SOC 014	Introduction to Race & Ethnicity	3
SOC 015	Mexican American Culture & Society	3
ANTH 002	Cultural Anthropology	3
ANTH 007	Anthropology of Religion, Magic, Witchcraft, and Healing	3

Select one course from the following:
COMM 001	Introduction to Public Speaking	3
COMM 009	Intro to Interpersonal Communication	3
COMM 013	Small Group Communication	3
COMM 017	Intercultural Communication	3

Humanities – Area C3 Requirements for Associate's Degree Occupational/Vocational
MATH 040*	Intermediate Algebra (or college-level math)	4
or MATH 045	Pre-Statistics (changed to Math Fundamentals for Social Science)	4
or MATH 049	Intermediate Algebra	4

Select any 2 units in Kinesiology or 1 unit of KINE & HS 070
N 001*	Basic Concepts in Nursing Practice	8
N 002*	Nursing Practice for Commonly Occurring Alterations in Health	9
N 003A*	Concepts of Nursing Practice - Complex Alterations in Health	9
N 003B*	Issues in Nursing	0.5
N 004*	Concepts of Nursing Practice-Acute Complex Alterations in Health	9.5
	DEGREE TOTAL	**72**

*This program is going through the approval process. MATH 040 and N courses will be removed and NRN courses will be added when approved.

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Vocational Nursing AS Degree (Licensed Vocational Nursing (VN/LVN)
Acceptance criteria, program eligibility and selection processes are subject to change. Prospective students are encouraged to check the College webpage periodically to remain updated.

The Vocational Nursing (VN) Program prepares graduates to qualify to take the national licensing examination (NCLEX-PN) to become a Licensed Vocational Nurse. Licensed vocational nurses assist in data collection, plan and implement nursing care, administer medications and treatments, and maintain a safe environment for patients and families.

Approved by the California Board of Vocational Nursing and Psychiatric Technicians (BVNPT), the 12-month, full-time VN program provides student-centered instruction and meets all State regulations. Classroom instruction is offered concurrent with clinical practice, assisting the student

in the application of nursing theory to actual nursing situations. Students are in class and clinical instruction approximately 34 hours each week.

Graduates eligible for Vocational Nurse Licensing Examination in California.

Program Acceptance Requirements: See School of Health Sciences & Education web page. All courses must be completed with a grade of "C" or better.

Program Learning Outcomes
Upon satisfactory completion of this program students will be able to:

- Students will be able to display attributes required for safe, ethical, and effective entry level vocational nursing practice.

Program Requirements		Units
HS 013	General Nutrition	3
HS 062	Your Living Body	3
HS 067	Introduction to Med/Dosage Calculations	1
PSY 001	General Psychology	3
VN 010	Vocational Nursing I	9
VN 010L	Vocational Nursing I Lab	7
VN 020	Vocational Nursing II	9
VN 020L	Vocational Nursing II Lab	7
VN 030	Vocational Nursing III	5
VN 030L	Vocational Nursing III Lab	4

Required Subtotal		**51**
COD General Education Pattern		18
Kinesiology Activities		2
	DEGREE TOTAL	**71**

CERTIFICATE MODIFIED PROGRAMS

Automotive Air Conditioning Certificate of Achievement
The emphasis of the **Automotive Air Conditioning Certificate** is on vehicle heating, ventilation, and air conditioning (HVAC) systems, including their basic operation, function, service and maintenance. The systems include heaters, air conditioners, manual controls, and computer controls. This certificate prepares students and incumbent employees for entry-level positions at local automotive dealerships, independent repair facilities, national repair chains, fleets, and parts suppliers. The applicable courses comply with National Automotive Technicians Education Foundation (NATEF), meet the standards of National Coalition of Certification Centers (NC3), and integrate Mopar College Automotive Program (CAP) Local levels 0 and 1 online coursework.

Program Learning Outcomes
Upon satisfactory completion of this program students will be able to:

- Safely work in a shop environment and uphold environmental safety and regulations.
- Describe the basic operation of the major components of the HVAC (heating, ventilation, air conditioning systems).
- Perform basic service, repair, maintenance and diagnostics on HVAC systems.

Program Requirements		Units
AUTO 010	Introduction to Automotive Technology	4
AUTO 011B	Auto Electronics & Electrical Systems	4

| AUTO 018 | Automotive Heating, Ventilation & Air Conditioning | 4 |
| AUTO 095A | Automotive Technology Work Experience (maximum of 2 units may be used for work experience)[1] | 2 |

Electives – Select 4 from the following:

AUTO 011C	Advanced Automotive Electrical Systems	4
AUTO 012A	Automotive Suspension & Steering Systems	4
AUTO 013A	Automotive Braking Systems	4
AUTO 014A	Automotive Engine Management	4
AUTO 014B	Advanced Engine Management	4
AUTO 015	Automotive Engine Diagnosis & Repair	4
AUTO 016	Automotive Manual Transmissions & Drive Train Systems	4
AUTO 017	Automatic Transmissions & Transaxles	4
AUTO 021A	Automotive Diagnosis & Troubleshooting	2
AUTO 043A	Intro to Hybrid, Electric & Fuel-Cell Vehicle Technology	3
AUTO 043B	Hybrid, Fuel-Cell & Electric Vehicle Diagnosis & Repair	3
AUTO 054D	Smog Check Inspector Training Level 1&2	4
AUTO 054E	Smog Check Diagnostic & Repair Technician	3
AUTO 093A	Intro to Light & Medium Duty Diesel Systems	2
AUTO 093B	Light/Medium Duty Diesel Systems	4
AUTO 093C*	Advanced Light/Medium Duty Systems	4
AUTO 093D*	Diesel Diagnostics & Troubleshooting	2
AUTO 095A	Automotive Technology Work Experience (1-2 units in addition to required)[1]	1
ACR 060	Air Conditioning & Refrigeration I	3
ACR 064	Air Conditioning & Refrigeration Electricity I	3
BUMA 010	Introduction to Business	3
EMP 013*	New World of Work Skills: Communication	0.5
EMP 016*	New World of Work Skills: Analysis and Solution Mindset	0.5
EMP 018*	New World of Work Skills: Entrepreneurial Mindset	0.5
ENGR 009	Introduction to Engineering	3
WELD 011A	Introduction to Shielded Metal Arc Welding	2
WELD 012A	Introduction to Gas Metal Arc Welding	2
	CERTIFICATE TOTAL	**18**

[1] For extenuating circumstances, as deemed by the automotive advisor, work experience may be fulfilled through a special shop project or an appropriate elective.

*This program is going through the approval process. AUTO 093C, AUTO 093D, EMP 013, EMP 016 and EMP 018 will be removed and other courses will be added when approved.

Automotive Alternative Fuels Certificate of Achievement
The emphasis of the **Automotive Alternative Fuels Certificate** is on key alternative vehicle systems including their basic operation, function, and service. The systems include engine management, emission controls, electronic/electronic controls, and on-board diagnostics related to alternate fueled vehicles. This certificate is designed to prepare students and incumbent employees for entry-level positions at local automotive dealerships, independent repair facilities, national repair chains, and parts suppliers, as well as fleet services specializing in alternative fuels. The applicable courses are National Automotive Technicians Education Foundation (NATEF) compliant, meet the standards of National Coalition of Certification Centers (NC3), and integrate Mopar College Automotive Program (CAP) Local levels 0 and 1 online coursework.

Program Learning Outcomes
Upon satisfactory completion of this program students will be able to:

- Safely work in a shop environment and on the high-voltage high pressure alternative fuel vehicles.
- Describe the basic operation of the major systems on a compressed natural gas (CNG), electric, hydrogen, and hybrid vehicle.
- Perform basic service, repair, maintenance and diagnostics on CNG, electric, hydrogen, and hybrid vehicles.
- Apply critical thinking skills to research, evaluate, analyze and synthesize information.

Program Requirements		Units
AUTO 010	Introduction to Automotive Technology	4
AUTO 011B	Auto Electronics & Electrical Systems	4
AUTO 040E	CNG Diagnosis & Repair	4
AUTO 043A	Intro to Hybrid, Electric & Fuel-Cell Vehicle Technology	3
AUTO 045A	Intro to Alternative Fuel Vehicles	2
AUTO 095A	Automotive Technology Work Experience (maximum of 2 units may be used for work experience)[1]	2
	CERTIFICATE TOTAL	**19**

[1] For extenuating circumstances, as deemed by the automotive advisor, work experience may be fulfilled through a special shop project or an appropriate elective.

Automotive Electrical Certificate of Achievement
The emphasis of the **Automotive Electrical Certificate** is on vehicle electrical/electronic systems including their basic operation, function, and service. The systems include battery, starting, charging, body control, lighting, restraint systems, and on-board diagnostics. This certificate is designed to prepare students and incumbent employees for entry-level positions at local automotive dealerships, independent repair facilities, national repair chains, fleets, and parts suppliers. The applicable courses are National Automotive Technicians Education Foundation (NATEF) compliant, meet the standards of National Coalition of Certification Centers (NC3), and integrate Mopar College Automotive Program (CAP) Local levels 0 and 1 online coursework.

Program Learning Outcomes
Upon satisfactory completion of this program students will be able to:

- Safely work in a shop environment and on the basic 12-volt vehicle systems.
- Describe the basic operation of the major vehicle electrical/electronic systems.
- Perform safe basic service, repair, maintenance and diagnostic on the vehicle's electrical/electronic systems.

Program Requirements		Units
AUTO 010	Introduction to Automotive Technology	4
AUTO 011B	Auto Electronics & Electrical Systems	4
AUTO 011C	Advanced Automotive Electrical Systems	4
AUTO 021A	Automotive Diagnosis & Troubleshooting	2
AUTO 043A	Intro to Hybrid, Electric & Fuel-Cell Vehicle Technology	3
AUTO 095A	Automotive Technology Work Experience (maximum of 2 units may be used for work experience)[1]	2
	CERTIFICATE TOTAL	**19**

[1] For extenuating circumstances, as deemed by the automotive advisor, work experience may be fulfilled through a special shop project or an appropriate elective.

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Automotive Emissions Certificate of Achievement

The emphasis of the **Automotive Emissions Certificate** is on vehicle emission systems, including their basic operation, function, service, and maintenance. The systems include on-board diagnostics (OBD), engine, exhaust, and fuel emission systems. This certificate is designed to prepare students and incumbent employees for entry-level positions at local automotive dealerships, independent repair facilities, national repair chains, fleets, and parts suppliers. The applicable courses are National Automotive Technicians Education Foundation (NATEF) compliant, meet the standards of National Coalition of Certification Centers (NC3), and integrate Mopar College Automotive Program (CAP) Local levels 0 and 1 online coursework. College of the Desert is a Bureau of Automotive Repair Certified Training Institution for the SMOG courses.

Program Learning Outcomes
Upon satisfactory completion of this program students will be able to:

- Demonstrate knowledge and skills required to study and pass the State Smog Inspection Exam.
- Demonstrate knowledge and skills required to study and pass the State Smog Repair Exam.
- List the vehicle emissions monitors and what is required to set a diagnostic trouble code.

Program Requirements   **Units**

AUTO 010	Introduction to Automotive Technology	4
AUTO 011B	Auto Electronics & Electrical Systems	4
AUTO 021A	Automotive Diagnosis & Troubleshooting	2
AUTO 054D	Smog Check Inspector Training Level 1 & 2	4
AUTO 054E	Smog Check Diagnostic & Repair Technician	3
AUTO 095A	Automotive Technology Work Experience (maximum of 2 units may be used for work experience)[1]	2
	CERTIFICATE TOTAL	**19**

[1] For extenuating circumstances, as deemed by the automotive advisor, work experience may be fulfilled through a special shop project or an appropriate elective.

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Automotive Engine Management Certificate of Achievement

The emphasis of the **Automotive Engine Management Certificate** is on vehicle engine management systems, including their basic operation, function, service, and maintenance. The systems include ignition, fuel, light mechanical, and emissions. This certificate is designed to prepare students and incumbent employees for entry-level positions at local automotive dealerships, independent repair facilities, national repair chains, fleets, and parts suppliers. The applicable courses are National Automotive Technicians Education Foundation (NATEF) compliant, meet the standards of National Coalition of Certification Centers (NC3), and integrate Mopar College Automotive Program (CAP) Local levels 0 and 1 online coursework.

Program Learning Outcomes
Upon satisfactory completion of this program students will be able to:

- Safely work in a shop environment and on the basic engine management systems.
- Describe the basic operation of the major vehicle engine management systems.
- Perform safe basic service, repair, maintenance and diagnostic on the vehicle's engine management systems.

Program Requirements

		Units
AUTO 010	Introduction to Automotive Technology	4
AUTO 011B	Auto Electronics & Electrical Systems	4
AUTO 014A	Automotive Engine Management	4
AUTO 014B	Advanced Engine Management	4
AUTO 021A	Automotive Diagnosis & Troubleshooting	2
AUTO 095A	Automotive Technology Work Experience (maximum of 2 units may be used for work experience)[1]	2
	CERTIFICATE TOTAL	**20**

[1] For extenuating circumstances, as deemed by the automotive advisor, work experience may be fulfilled through a special shop project or an appropriate elective.

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Automotive Light and Medium Duty Diesel Certificate of Achievement

This certificate provides theory and hands-on experience in automotive light and medium duty diesel systems including theory of operation, service, diagnosis, and repair. Light and medium duty diesel systems is an employment concentration area currently recognized nationwide. A Certificate of Achievement promotes employment advancement opportunities in the automotive field.

Program Learning Outcomes

Upon satisfactory completion of this program students will be able to:

- Describe the basic operation of the major vehicle Light/Medium duty vehicle systems.
- Describe basic diesel maintenance and service procedures.
- List safety procedures when in a shop environment servicing basic diesel vehicle systems.

Program Requirements

		Units
AUTO 093A	Intro to Light & Medium Duty Diesel Systems	2
AUTO 093B	Light/Medium Duty Diesel Systems	4
AUTO 093C*	Advanced Light/Medium Duty Systems	4
AUTO 093D*	Diesel Diagnostics & Troubleshooting	2
AUTO 095A	Automotive Technology Work Experience (maximum of 2 units may be used for work experience)[1]	2

Electives – Select 4 from the following:

AUTO 010	Introduction to Automotive Technology	4
AUTO 011B	Auto Electronics & Electrical Systems	4
AUTO 011C	Advanced Automotive Electrical Systems	4
AUTO 012A	Automotive Suspension & Steering Systems	4
AUTO 013A	Automotive Braking Systems	4
AUTO 014A	Automotive Engine Management	4
AUTO 014B	Advanced Engine Management	4
AUTO 015	Automotive Engine Diagnosis & Repair	4
AUTO 016	Automotive Manual Transmissions & Drive Train Systems	4
AUTO 017	Automatic Transmissions & Transaxles	4
AUTO 018	Automotive Heating, Ventilation & Air Conditioning	4
AUTO 020A	Automotive Quick Service	3
AUTO 021A	Automotive Diagnosis & Troubleshooting	2
AUTO 040E	CNG Diagnosis & Repair	4
AUTO 041B	CNG Installation & Repair	3
AUTO 043A	Intro to Hybrid, Electric & Fuel-Cell Vehicle Technology	3

AUTO 043B	Hybrid, Fuel-Cell & Electric Vehicle Diagnosis & Repair	3
AUTO 045A	Intro to Alternative Fuel Vehicles	2
AUTO 054D	Smog Check Inspector Training Level 1 & 2	4
AUTO 054E	Smog Check Diagnostic & Repair Technician	3
BUMA 010	Introduction to Business	3
EMP 013*	New World of Work Skills: Communication	0.5
EMP 016*	New World of Work Skills: Analysis and Solution Mindset	0.5
EMP 018*	New World of Work Skills: Entrepreneurial Mindset	0.5
ENGR 009	Introduction to Engineering	3
	CERTIFICATE TOTAL	**18**

[1] For extenuating circumstances, as deemed by the automotive advisor, work experience may be fulfilled through a special shop project or an appropriate elective.

*This program is going through the approval process. AUTO 093C, AUTO 093D, EMP 013, EMP 016 and EMP 018 will be removed and other courses will be added when approved.

Automotive Steering, Suspension, & Alignment Certificate of Achievement

The emphasis of the **Steering, Suspension, & Alignment Certificate** is on vehicle steering & suspension systems including their basic operation, function, service, and maintenance. The systems include base brakes, anti-lock brakes, and various types of front and rear suspension systems, as well as four-wheel alignment. This certificate is designed to prepare students and incumbent employees for entry-level positions at local automotive dealerships, independent repair facilities, national repair chains, fleets, and parts suppliers. The applicable courses are National Automotive Technicians Education Foundation (NATEF) compliant, meet the standards of National Coalition of Certification Centers (NC3), and integrate Mopar College Automotive Program (CAP) Local levels 0 and 1 online coursework.

Program Learning Outcomes
Upon satisfactory completion of this program students will be able to:

- Safely work in a shop environment and on basic steering & suspension systems.
- Describe the basic operation of a vehicle's steering & suspension systems.
- Perform basic service, repair, maintenance and diagnostic on the vehicle's steering and suspension systems.

Program Requirements   **Units**

AUTO 010	Introduction to Automotive Technology	4
AUTO 011B	Auto Electronics & Electrical Systems	4
AUTO 012A	Automotive Suspension & Steering Systems	4
AUTO 095A	Automotive Technology Work Experience (maximum of 2 units may be used for work experience)[1]	2

Electives – Select 4 from the following:

AUTO 011C	Advanced Automotive Electrical Systems	4
AUTO 013A	Automotive Braking Systems	4
AUTO 014A	Automotive Engine Management	4
AUTO 014B	Advanced Engine Management	4
AUTO 015	Automotive Engine Diagnosis & Repair	4
AUTO 016	Automotive Manual Transmissions & Drive Train Systems	4
AUTO 017	Automatic Transmissions & Transaxles	4
AUTO 018	Automotive Heating, Ventilation & Air Conditioning	4
AUTO 020A	Automotive Quick Service	3

AUTO 021A	Automotive Diagnosis & Troubleshooting	2
AUTO 040E	CNG Diagnosis & Repair	4
AUTO 041B	CNG Installation & Repair	3
AUTO 043A	Intro to Hybrid, Electric & Fuel-Cell Vehicle Technology	3
AUTO 043B	Hybrid, Fuel-Cell & Electric Vehicle Diagnosis & Repair	3
AUTO 045A	Intro Alternative Fuel Vehicles	2
AUTO 054D	Smog Check Inspector Training Level 1 & 2	4
AUTO 054E	Smog Check Diagnostic & Repair Technician	3
AUTO 093A	Intro to Light & Medium Duty Diesel Systems	2
AUTO 093B	Light/Medium Duty Diesel Systems	4
AUTO 093C*	Advanced Light/Medium Duty Systems	4
AUTO 093D*	Diesel Diagnostics & Troubleshooting	2
AUTO 095A	Automotive Technology Work Experience (1-2 units in addition to required)[1]	1-2
ACR 060	Air Conditioning & Refrigeration I	3
ACR 064	Air Conditioning & Refrigeration Electricity I	3
BUMA 010	Introduction to Business	3
EMP 013*	New World of Work Skills: Communication	0.5
EMP 016*	New World of Work Skills: Analysis and Solution Mindset	0.5
EMP 018*	New World of Work Skills: Entrepreneurial Mindset	0.5
ENGR 009	Introduction to Engineering	3
WELD 011A	Introduction to Shielded Metal Arc Welding	2
WELD 012A	Introduction to Gas Metal Arc Welding	2
	CERTIFICATE TOTAL	**18**

[1] For extenuating circumstances, as deemed by the automotive advisor, work experience may be fulfilled through a special shop project or an appropriate elective.

*This program is going through the approval process. AUTO 093C, AUTO 093D and EMP 013, EMP 016 and EMP 018 will be removed and other courses will be added when approved.

Automotive Transmission & Axle Certificate of Achievement

The emphasis of the **Automotive Transmission & Axle Certificate** is on vehicle manual transmissions, automatic transmissions/transaxles, and axle systems. This includes their basic operation, function, service, and maintenance. The systems include automatic and manual transmissions, transfer cases, final drives, CV joints, and shafts, as well as associated hardware. This certificate is designed to prepare students and incumbent employees for entry-level positions at local automotive dealerships, independent repair facilities, national repair chains, fleets, and parts suppliers. The applicable courses are National Automotive Technicians Education Foundation (NATEF) compliant, meet the standards of National Coalition of Certification Centers (NC3), and integrate Mopar College Automotive Program (CAP) Local levels 0 and 1 online coursework.

Program Learning Outcomes
Upon satisfactory completion of this program students will be able to:

- Safely work in a shop environment and uphold environmental safety and regulations.
- Describe the basic operation of the major components of the transmission and axle systems.
- Perform basic service, repair, maintenance and diagnostics on transmission and axle systems.

Program Requirements   Units

AUTO 010	Introduction to Automotive Technology	4
AUTO 011B	Auto Electronics & Electrical Systems	4
AUTO 016	Automotive Manual Transmissions & Drive Train Systems	4

AUTO 017	Automatic Transmissions & Transaxles	4
AUTO 095A	Automotive Technology Work Experience (maximum of 2 units may be used for work experience)[1]	2
	CERTIFICATE TOTAL	**18**

[1] For extenuating circumstances, as deemed by the automotive advisor, work experience may be fulfilled through a special shop project or an appropriate elective.

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Basic Radio Production Certificate of Achievement

Digital technology has transformed radio production and broadcasting, making it possible to produce programming without huge budgets, expensive audio equipment or large studios. Today radio programming reaches massive audiences through streaming platforms that include Apple, Pandora, Spotify. Add to this the continued strength of traditional and satellite radio broadcasting and you have an industry that is strong and growing.

In this certificate program, students receive direct, hands-on experience creating radio programming that is intelligent, creative, compelling, entertaining and informative. The certificate covers the basic aspects of radio production, including scripting, recording, editing and broadcasting. Students will learn:

- Audio programming concepts, including story development, radio vocabulary, audio production tools, studio protocol and production workflow.
- Writing and producing techniques including script formatting, studio management, on-air reporting and interviewing, communicating with collaborating.
- Audio recording fundamentals, basic sound editing and mixing.
- Broadcast techniques.

This Certificate provides a platform from which to launch further study of radio production as well as offer students' basic entry-level industry skills, processes and practices. It gives students crucial communication and storytelling tools they may apply in almost any area of study. Students emerge with radio programming for their personal or professional portfolio.

Program Learning Outcomes
Upon satisfactory completion of this program students will be able to:

- Students will produce radio programming.
- Students will have the skills necessary to get entry-level jobs or better in areas related to radio writing, production, reporting, announcing, and broadcasting.

Program Requirements		Units
RTV 002	Broadcast Announcing	3
RTV 005	Broadcast Writing	3
RTV 007	Introduction to Radio Production	3
RTV 007A	Intermediate Radio Production	3

Electives – Select 6 units from the following:

RTV 003	Sports Media	3
RTV 007B	Advanced Radio Production	3
FILM 002A	Film Production I: Basic Film Production	3
MC 001	Introduction to Mass Media	3
MC 005	Introduction to Public Relations	3
MUS 078A	Electronic Music Production	3
J 003A	News Reporting & Writing	3
BUMA 027	Marketing	3

BUMA 028	Introduction to Entrepreneurship	3
RTV 095A	Radio & TV Work Experience (maximum of 3 units may be used for work experience)	1-3
	CERTIFICATE TOTAL	**18**

Community Health Worker: Children and Families Certificate of Achievement

The Community Health Worker (CHW): Children and Families Certificate trains students to serve a critical role in the community by supporting mental and physical health for children and families. Students completing the certificate will be qualified to provide appropriate health education and information to help children and families get the mental and physical healthcare they need. Students will be equipped with a community resource file and strategies to provide support and guidance for children and families. They will also be trained to perform basic health care procedures and to advocate for the health needs of their clients.

Program Learning Outcomes
Upon satisfactory completion of this program students will be able to:

- Demonstrate the ability to deliver basic components of safe, effective healthcare and screening tests for children and families.
- Explain the concepts of ethics and confidentiality including techniques of communication and mandated reporting process and protocols.
- Research and critically evaluate sources of health information that promote health for children and families.
- Identify community resources and strategies that support children and families while creating an action plan to confront aggression, bullying, child abuse, and neglect.

Program Requirements		**Units**
HS 064	Nurse Assistant	6
HS 066	Home Health Aide	2
KINE 010	Personal & Community Health	3
CDE 101	Child Growth & Development	3
CDE 102	Child, Family & Community	3
	CERTIFICATE TOTAL	**17**

General Automotive Service Certificate of Achievement

The emphasis of the **General Automotive Service Certificate** is on vehicle general systems including their basic operation, function, service, and maintenance. The systems include electrical, braking, steering & suspension, engine management, and heating & air conditioning systems. This certificate is designed to prepare students and incumbent employees for entry-level positions at local automotive dealerships, independent repair facilities, national repair chains, fleets, and parts suppliers. The applicable courses are National Automotive Technicians Education Foundation (NATEF) compliant, meet the standards of National Coalition of Certification Centers (NC3), and integrate Mopar College Automotive Program (CAP) Local levels 0 and 1 online coursework.

Program Learning Outcomes
Upon satisfactory completion of this program students will be able to:

- Safely work in a shop environment and on the basic general vehicle systems.
- Describe the basic operation of the general vehicle systems.
  Perform basic service, repair, maintenance and diagnostic on the general vehicle systems.

Program Requirements   Units

AUTO 010	Introduction to Automotive Technology	4
AUTO 011B	Auto Electronics & Electrical Systems	4
AUTO 012A	Automotive Suspension & Steering Systems	4
AUTO 013A	Automotive Braking Systems	4
AUTO 014A	Automotive Engine Management	4
AUTO 018	Automotive Heating, Ventilation & Air Conditioning	4
AUTO 095A	Automotive Technology Work Experience (maximum of 2 units may be used for work experience)[1]	2
	CERTIFICATE TOTAL	**26**

[1] For extenuating circumstances, as deemed by the automotive advisor, work experience may be fulfilled through a special shop project or an appropriate elective.

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Hospitality Management Certificate of Achievement

Hospitality Management is the study of different aspects of management and leadership as they relate to the hospitality industry. Included in the hospitality industry are such sectors as hotels, restaurants, travel services, gaming and entertainment, recreation, managed services, and special events. The **Certificate of Achievement in Hospitality Management** will allow graduates of the program to compete for entry-level positions, such as Housekeeper, Front Desk Clerk and Reservations Clerk. Students who wish to pursue education beyond the Certificate should consider the Hospitality AS Degree for Employment Preparation or the Hospitality AS Degree and Transfer Preparation. Even students who choose not to major in hospitality management find that course work in the field can improve their ability to think critically and solve complex problems, be more aware of personal abilities and skills, and simply manage more effectively.

Program Learning Outcomes
Upon satisfactory completion of this program students will be able to:

- Understand and be able to discuss the major factors and trends affecting the Hospitality Industry as a whole and its component sectors.
- Have a working knowledge of the various hospitality operations.
- Develop a personal assessment profile of their individual strengths and weaknesses associated with their entry and success in the hospitality industry.
- Demonstrate a basic understanding of management/leadership behaviors and theories as they relate to the hospitality industry.

Program Requirements   Units

Hospitality Specific Courses – Select 10-11 units:

BUHM 047	Hospitality Law	3
BUHM 050	Introduction to the Hospitality Industry	3
BUHM 051	Introduction to Food and Beverage Management	3
BUHM 095A	Hotel & Restaurant Management Work Experience (maximum of 2 units may be used for work experience)	1-2

General Business Management Courses – Select 3 units:

BUMA 094	Business Communications	3

Accounting/Financial Courses – Select 3-4 units:

BUAC 020A	Financial Accounting	4
BUAC 020B	Managerial Accounting	4
BUAC 050	Accounting in the Business Environment	3
BUAC 051	Accounting for Entrepreneurs & Business Managers	3

Office Technology Courses – Select 4 units from the following:

AIS 002A	Introductory Microsoft Outlook	1
AIS 003A	Introductory Microsoft Word	1
AIS 004A	Introductory PowerPoint	1
AIS 007A	Introductory Excel	1
CIS 010	Computer Literacy	4

Employability Soft Skills – Select 1 - 3 units from the following:

AIS 012	Office Support Skills	3
EMP 010	New World of Work Skills: Adaptability	0.5
EMP 011	New World of Work Skills: Self-Awareness	0.5
EMP 012	New World of Work Skills: Digital Fluency	0.5
EMP 013	New World of Work Skills: Communication	0.5
EMP 014	New World of Work Skills: Collaboration	0.5
EMP 015	New World of Work Skills: Empathy	0.5
EMP 016	New World of Work Skills: Analysis and Solution Mindset	0.5
EMP 017	New World of Work Skills: Resilience	0.5
EMP 018	New World of Work Skills: Entrepreneurial Mindset	0.5
EMP 019	New World of Work Skills: Social Diversity/Awareness	0.5
	CERTIFICATE TOTAL	**21-25**

Hybrid, Fuel Cell, & Electric Vehicle Certificate of Achievement

The emphasis of the Hybrid, Fuel-cell and Electric Vehicles Certificate is on key hybrid, fuel-cell and electric vehicle systems including their basic operation, function, service and maintenance. The systems include: engine management, emission controls, electronic/electronic controls and onboard diagnostics related to hybrid, fuel-cell and electric vehicles.

This certificate is designed to prepare students and incumbent employees for entry-level positions at local automotive dealerships, independent repair facilities, national repair chains, parts suppliers as well as fleet service specializing in hybrid, fuel-cell and electric vehicles. The applicable courses are National Automotive Technicians Education Foundation (NATEF) compliant and meet the standards of National Coalition of Certification Centers (NC3) and integrate Mopar College Automotive Program (CAP) Local levels 0 and 1 online coursework.

Program Learning Outcomes

Upon satisfactory completion of this program students will be able to:

- Demonstrate knowledge and skills to safely work in a shop environment and on high-voltage vehicle systems.
- Describe the basic operation of hybrid, fuel cell and electric vehicle systems.
- Perform basic service, repair, maintenance, and diagnostic on the hybrid, fuel cell and electric vehicle systems.

Program Requirements		**Units**
AUTO 010	Introduction to Automotive Technology	4
AUTO 011B	Auto Electronics & Electrical Systems	4
AUTO 011C	Advanced Automotive Electrical Systems	5
AUTO 043A	Intro to Hybrid, Electric & Fuel-Cell Vehicle Technology	3
AUTO 043B	Hybrid, Fuel-Cell & Electric Vehicle Diagnosis & Repair	3
AUTO 095A	Automotive Technology Work Experience (maximum of 2 units may be used for work experience)	2
	CERTIFICATE TOTAL	**21**

Vocational Nursing Certificate of Achievement
The Vocational Nursing (VN) Program prepares graduates to qualify to take the national licensing examination (NCLEX-PN) to become a Licensed Vocational Nurse. Licensed vocational nurses assist in data collection, plan and implement nursing care, administer medications and treatments, and maintain a safe environment for patients and families.

Approved by the California Board of Vocational Nursing and Psychiatric Technicians (BVNPT), the 12-month, full-time VN program provides student-centered instruction and meets all State regulations. Classroom instruction is offered concurrent with clinical practice, assisting the student in the application of nursing theory to actual nursing situations. Students are in class and clinical instruction approximately 34 hours each week.

Program Acceptance Requirements: See School of Health Sciences & Education web page.

Graduates eligible for Vocational Nurse Licensing Examination in California. All courses must be completed with a grade of "C" or better.

Program Learning Outcomes
Upon satisfactory completion of this program students will be able to:

- Students will be able to display attributes required for safe, ethical, and effective entry level vocational nursing practice.

Program Requirements		Units
HS 013	General Nutrition	3
HS 062	Your Living Body	3
HS 067	Introduction to Med/Dosage Calculations	1
PSY 001	General Psychology	3
VN 010	Vocational Nursing I	9
VN 010L	Vocational Nursing I Lab	7
VN 020	Vocational Nursing II	9
VN 020L	Vocational Nursing II Lab	7
VN 030	Vocational Nursing III	5
VN 030L	Vocational Nursing III Lab	4
	CERTIFICATE TOTAL	**51**

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NEW NONCREDIT PROGRAM

Automotive Quick Service Certificate of Completion
This certificate is geared for the quick service technician and provides training regarding services performed in most quick service facilities. (Noncredit total hours: 40)

Program Learning Outcomes
Upon satisfactory completion of this program students will be able to:

- List the proper technique and ethics while performing duties of a service technician.
- Describe how to safely work in a shop environment and on the basic general vehicle systems.
- Perform basic service, repair, maintenance and diagnostic on the general vehicle systems.

Program Requirements		Units
AUTO 304	Automotive Calculation	0
AUTO 305	Automotive Express Service	0
	CERTIFICATE TOTAL	**0**

MODIFIED NONCREDIT PROGRAM

Automotive Terminology Certificate of Achievement

This program prepares the student for an entry-level position in the area of parts distribution, and will also prepare students for further automotive courses. Completion of this program provides students with a detailed understanding of key components within each automotive system. (Noncredit hours: 32)

Program Learning Outcomes

Upon satisfactory completion of this program students will be able to:

- Correctly recognize the major components of an automotive system.
- Learners will interpret automotive terminology and apply common phases.

Program Requirements		Units
AUTO 310	Automotive Components	0
AUTO 301	Automotive Terminology	0
	CERTIFICATE TOTAL	**0**