

COLLEGE OF THE DESERT

Catalog Addendum Curriculum Updates Effective Spring 2012

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The College of the Desert Catalog Addendum represents course and program changes made since the last publication of the catalog. Included in this Addendum are modified degrees and certificates, and course changes. These changes are effective as of the Spring 2012 semester.

Academic Schools and Subjects

School of Applied Sciences & Business (760) 773-2571

Administration of Justice (AJ)
Advanced Officer Training (AOT)
Agriculture/Business (AGBU)
Agriculture/Environmental Horticulture (AGEH)
Agriculture/Plant Science (AGPS)
Air Conditioning (ACR)
Applied Construction Technology (ACT)
Architecture (ARCH)
Automotive Technology (AUTO)
Basic Peace Officer Training (BPOT)
Building Inspection Technology (BIT)
Business/Accounting (BUAC)
Business/Finance (BUFI)
Business/Hotel & Restaurant (BUHM)
Business/Management (BUMA)
Computer Information Systems (CIS)
Construction Management (CM)
Culinary Arts (CART)
Digital Design and Production (DDP)
Drafting/CAD (DRA)
Economics (ECON)
Emergency Medical Technician (EMT)
Engineering Technology (ENGT)
Fire Technology (FIRE)
Golf Management (GOLF)
Natural Resources (NR)
Real Estate Development (RED)
Welding (WELD)
Work Experience – General (WEG)
Work Experience – Vocational (WEV)

School of Communication & Humanities (760) 773-2572

Adult Basic Education (ABE)
American Sign Language (ASL)
English (ENG)
English as a Second Language – Credit (ESL)
English as a Second Language – Noncredit (ESLN)
Foreign Language (FL)
French (FR)
German (GER)
Italian (ITAL)
Japanese (JPN)
Reading (RDG)
Reading ESL (RESL)
Spanish (SPAN)
Speech (SP)

School of Arts & Sciences (760) 773-2574

Alcohol and Drug Studies (HSAD)
Anthropology (ANTH)
Art (ART)
Astronomy (A)
Biology (BI)
Chemistry (CH)
Computer Science (CS)
Dance (DANC)
Engineering – General (ENGR)
Geography (GEOG)
Geology (G)
History (HIST)
Journalism (J)
Mass Communication (MC)
Mathematics (MATH)
Music (MUS)
Philosophy (PHIL)
Physics (PH)
Political Science (PS)
Psychology (PSY)
Radio – Television (RTV)
Sociology (SOC)
Theater Arts (TA)

School of Health Sciences & Education (760) 773-2579

Early Childhood Education (ECE)
Health Education (HE)
Health Sciences (HS)
Nursing (N)
Physical Education (PE)
Recreation (RE)
Varsity Sports – Men (VSM)
Varsity Sports – Women (VSW)
Vocational Nursing (VN)

School of Library & Learning Resources (760) 568-7517

Academic Skills Center (ASC)
Library and Information Systems (LIS)

Student Affairs (760) 773-2520

Disabled Students Programs & Services (DSPS)
Student Development (STDV)

Programs of Study

ADVANCED TRANSPORTATION TECHNOLOGIES

The Advanced Transportation Technologies degree program offers students the opportunity to learn the academic and occupational skills needed by future entry-level technicians in the transportation industry.

The curriculum was developed with industry guidance and prepares students with foundation courses, and then focuses on the new electronic technologies used in light, medium and heavy-duty vehicles. The program has special emphasis on the hybrid and alternate fuel vehicles being introduced by the major manufacturers. The degree program's emphasis is on engine performance and emission systems, vehicle computer systems, electronic controls and vehicle system diagnostics that are used in both conventional and alternate fueled vehicles. In addition to the degree option, the advanced transportation 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 the 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. For more information please call (760) 776-7390.

Advisor: D. Redman

ADVANCED TRANSPORTATION TECHNOLOGIES A. S. DEGREE for employment preparation

Required Courses:

AUTO-010	Intro Automotive Technology	4
AUTO-011B	Auto Electronics & Electrical Systems	4
AUTO-011C	Adv. Auto Electrical Systems	5
AUTO-014A	Auto Engine Management	4
AUTO-021A	Automotive Diagnosis & Troubleshooting	2
AUTO-040C	CNG/LPG Diagnosis & Repair	7
AUTO-043A	Hybrid, Fuel-Cell & Electric Technology	3
AUTO-045A	Intro to Alternative Fuel Vehicles	2
AUTO-092A	Bio-diesel Char., Use & Production	2
AUTO-095B	Automotive Work Experience	2
AUTO-099	Auto/Adv Transportation Summation	1
Required Subtotal	.....	36

Electives - 8 units from the following:

AUTO-014B	Advanced Engine Management.....	5
AUTO-016	Manual Drive Train & Axles	4
AUTO-017	Auto Transmissions & Transaxles	4
AUTO-018	Auto Heating & Air Conditioning	4
AUTO-030A	Consumer Auto Technology	3
AUTO-041	CNG/LPG Conversion/Installation	3
AUTO-054C	Basic & Advanced Clean Air Car Course	7
AUTO-090B	BAR Update Training	1
AUTO-095A,B+	Auto Work Experience (In addition to required)	1-2
ACR-060	Air Conditioning/Refrigeration I	3
ACR-064	Air Conditioning/Refrigeration Electricity I	3
BUMA-094	Business Communications	3
WELD-010	Oxy-Acetylene Gas Welding	3
Required Subtotal	.....	44
General Education Requirements	.....	18
Physical Education Activities	.....	2
DEGREE TOTAL	.....	64

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

Programs of Study

AUTOMOTIVE ALTERNATE FUELS CERTIFICATE OF ACHIEVEMENT

Required Courses:

AUTO-010	Intro Automotive Technology.....	4
AUTO-011B	Auto Electronics & Electrical Systems	4
AUTO-040C	CNG/LPG Diagnosis & Repair	7
AUTO-043A	Hybrid, Fuel-Cell & Electric Tech	3
AUTO-045A	Intro to Alternative Fuel Vehicles	2
AUTO-092A	Bio-diesel Char., Use & Production	2
AUTO-09B+	Automotive Work Experience	2
CERTIFICATE TOTAL	.....	24

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

AUTOMOTIVE TECHNOLOGY

Automotive Technology is the study of automotive systems as they relate to the current generation of computer controlled vehicles. Career paths in this discipline include automotive service technician, automotive service consultants, automotive parts sales people, vehicles modifiers in the alternate fuels and fuel cells. Even students who choose not to major in automotive technology find that course work in the field can improve their ability to solve complex problems, improve diagnostic skills and research complex problems. College of the Desert's automotive curriculum includes course offerings that provide a general overview of the discipline as well as specific courses in steering, suspension, braking systems, both automatic and manual transmission, air conditioning, electrical systems, engine performance and emission control systems. The College also offers certificates of achievement for student who specialize in the areas. Students earning the certificates of achievement in the various specialty areas may choose to continue towards an associate's degree or go directly to entry-level jobs in that aspect of the automotive service industry. Past recipients of COD automotive certificates have obtained positions as service technicians, service advisors, heavy-duty technicians, alternate fuels technicians and alternate fuel system up fitters. For more information please call (760) 776-7390.

NATEF Certification

The Automotive curriculum is aligned with the standards of The National Automotive Technicians Education Foundation (NATEF). The Automotive and Advanced Transportation programs are NATEF certified. Students are recommended to consult with the program advisor for requirements for Automotive Service Excellence (ASE) certification.

Advisor: D. Redman

AUTOMOTIVE TECHNOLOGY A. S. DEGREE for employment preparation

Required Courses:

AUTO-010	Intro Automotive Technology	4
AUTO-011B	Auto Electronics & Electrical Sys	4
AUTO-011C	Adv. Auto Electrical Systems	5
AUTO-012A	Auto Steering & Suspension Sys	4
AUTO-013A	Auto Braking Systems	4
AUTO-014A	Auto Engine Management	4
AUTO-015	Auto Engine Diagnosis & Repair	4
AUTO-020A	Auto Quick Service	3
AUTO-021A	Automotive Diagnosis & Troubleshooting	2
AUTO-095B+	Automotive Work Experience	2
AUTO-099	Auto/Adv Transportation Summation	1
Required Subtotal	.....	37

Programs of Study

Electives - 6 units from the following:		
AUTO-014B	Advanced Engine Management	5
AUTO-016	Manual Drive Train & Axles	4
AUTO-017	Auto Transmissions & Transaxles	4
AUTO-018	Auto Heating & Air Conditioning	4
AUTO-030A	Consumer Auto Technology	3
AUTO-043A	Hybrid, Fuel-Cell & Electric Tech	3
AUTO-045A	Intro to Alternative Fuel Vehicles	2
AUTO-054C	Basic & Advanced Clean Air Car Course	7
AUTO-090B	BAR Update Training	1
AUTO-095A,B+	Auto Work Experience (In addition to required)	1-2
ACR-060	Air Conditioning/Refrigeration I	3
ACR-064	Air Conditioning/Refrigeration Electricity I	3
WELD-010	Oxy-Acetylene Gas Welding	3
Required Subtotal	.....	43
General Education Requirements	.....	18
Physical Education Activities	.....	2
DEGREE TOTAL	.....	63

AUTOMOTIVE AIR CONDITIONING CERTIFICATE OF ACHIEVEMENT

Required Courses:		
AUTO-010	Intro Automotive Technology	4
AUTO-011B	Auto Electronics & Electrical Systems	4
AUTO-018	Auto Heating & Air Conditioning	4
AUTO-095B+	Automotive Work Experience	2
Required Subtotal	.....	14
Electives - 4 units from the following:		
AUTO-013A	Auto Braking Systems	4
AUTO-014A	Auto Engine Management.....	4
AUTO-014B	Advanced Engine Management	5
AUTO-016	Manual Drive Train & Axles	4
AUTO-017	Auto Transmissions & Transaxles	4
AUTO-021A	Automotive Diagnosis & Troubleshooting	2
AUTO-030A	Consumer Auto Technology	3
AUTO-043A	Hybrid, Fuel-Cell & Electric Tech	3
AUTO-054C	Basic & Advanced Clean Air Car Course	7
AUTO-090B	BAR Update Training	1
AUTO-095A,B+	Auto Work Experience (In addition to required)	1-2
ACR-060	Air Conditioning/Refrigeration I	3
ACR-064	Air Conditioning/Refrigeration Electricity I	3
WELD-010	Oxy-Acetylene Gas Welding	3
CERTIFICATE TOTAL	.....	18

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

Programs of Study

AUTOMOTIVE EMISSIONS CERTIFICATE OF ACHIEVEMENT

Required Courses:

AUTO-010	Intro Automotive Technology	4
AUTO-011B	Auto Electronics & Electrical Systems	4
AUTO-054C	Basic & Advanced Clean Air Car Course.....	7
AUTO-090B	BAR Update Training	1
AUTO-095B+	Automotive Work Experience	2
CERTIFICATE TOTAL	.....	18

STEERING, SUSPENSION & ALIGNMENT CERTIFICATE OF ACHIEVEMENT

Required Courses:

AUTO-010	Intro Automotive Technology	4
AUTO-011B	Auto Electronics & Electrical Systems	4
AUTO-012A	Auto Steering & Suspension Systems	4
AUTO-095B+	Automotive Work Experience	2

Electives - 4 units from the following:

AUTO-013A	Auto Braking Systems	4
AUTO-014A	Auto Engine Management	4
AUTO-014B	Advanced Engine Management	5
AUTO-016	Manual Drive Train & Axles	4
AUTO-017	Auto Transmissions & Transaxles.....	4
AUTO-018	Auto Heating & Air Conditioning	4
AUTO-021A	Automotive Diagnosis & Troubleshooting	2
AUTO-030A	Consumer Auto Technology	3
AUTO-043A	Hybrid, Fuel-Cell & Electric Tech	3
AUTO-054C	Basic & Advanced Clean Air Car Course	7
AUTO-090B	BAR Update Training	1
AUTO-095A,B+	Auto Work Experience (In addition to required)	1-2
ACR-060	Air Conditioning/Refrigeration I	3
ACR-064	Air Conditioning/Refrigeration Electricity I	3
WELD-010	Oxy-Acetylene Gas Welding	3
CERTIFICATE TOTAL	.....	18

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

New UC Transferable Courses

(Effective Fall 2011)

Business/Accounting:

BUAC-020A, Financial Accounting, 4 Units
BUAC-020B, Managerial Accounting, 4 Units

Computer Science:

CS-009, Data Structures and Algorithms, 4 Units
*CS-007A, Computer Science I, 4 Units
CS-007B, Computer Science II, 4 Units

*7A and PH 5 combined: maximum credit, one course

Engineering – General:

ENGR-012, Engineering Dynamics, 3 Units
ENGR-013, Materials Science, 3 Units

Mathematics:

MATH-015, Discrete Mathematics for Computers, 4 Units

Music:

MUS-050A, Beginning Jazz/Rock Guitar, 2 Units
MUS-050B, Intermediate Jazz/Rock Guitar, 2 Units

Physical Education:

*PE-006, Women's Self Defense, Health & Fitness, 3 Units
*PE-066, Adapted Fitness Aquatics, 1 Unit
*PE-082, Swimming, 1 Unit
*PE-093, Water Fitness, 1 Unit

+ Any or all of these courses combined: maximum credit, 8 units

* Any or all of these PE Activity courses combined: maximum credit, 4 units

Radio – Television:

RTV-006, Introduction to Film, 3 Units

Courses of Instruction

ADVANCED OFFICER TRAINING (AOT)

AOT-077A Interview & Interrogation Course – Basic Units: 1½
(formerly AOT-077)

This course will provide the student with the fundamentals and techniques for properly interviewing victims, witnesses, and suspects in a field setting. Methods for preparing for an interview, establishing a rapport with people, and interview strategies will be discussed. Additionally, methods for using a tape recorder and techniques for manually recording an interview, along with dealing with different personalities and ethnic groups will be covered. This class is POST (Peace Officer Standards & Training) Certified and will be taught with the Riverside Sheriff Department's POST Certification. Total of 27 hours as required by POST Certification.

Prerequisite: BPOT-063 or equivalent and meets all POST and Riverside Sheriff Department requirements.

Lecture Hours: 27 Lab Hours: 0 Repeatable: No Grading: Pass/No Pass
Transfer Status: None Degree Applicable: AA/AS
COD GE: None CSU GE: None IGETC: None

AOT-078A Interview & Interrogation Course – Advanced Units: 2½
(formerly AOT-078)

This POST certified course will provide advanced interview and interrogation techniques for experienced law enforcement personnel assigned to patrol or investigations and others who conduct criminal interviews and interrogations. This course will further refine the skills and techniques required to properly obtain statements, incriminating statements, admissions, and confessions. This class is POST (State of California, Commission on Peace Officer Standards & Training) Certified and will be taught with the Riverside Sheriff Department's POST Certification. Total of 40 hours as required by POST Certification.

Prerequisite: AOT-077A

Lecture Hours: 45 Lab Hours: 0 Repeatable: No Grading: Pass/No Pass
Transfer Status: None Degree Applicable: AA/AS
COD GE: None CSU GE: None IGETC: None

AOT-081A Crime Scene Investigation Course Units: 1½
(formerly AOT-081)

This course reviews principles of evidence collection, crime scene examination, recording, gathering trace evidence, and collecting and packaging of biological evidence, i.e., body fluids. It will introduce the student to basic fundamentals of a digital camera and its use and function in a crime scene investigation. Total of 27 hours as required by POST Certification.

Prerequisite: BPOT-063 or equivalent and meets all POST and Riverside Sheriff Department requirements.

Lecture Hours: 27 Lab Hours: 0 Repeatable: No Grading: Letter Grade
Transfer Status: None Degree Applicable: AA/AS
COD GE: None CSU GE: None IGETC: None

Courses of Instruction

AUTOMOTIVE TECHNOLOGY (AUTO)

AUTO-040C **CNG/LPG Diagnosis & Repair** **Units: 7**
(formerly AUTO-040B)

This course provides classroom lecture/discussion and hands-on training on CNG/LPG diagnosis and repair. The course is designed to introduce the service technician to safety diagnostic and repair practices and procedures unique to gaseous fuel vehicles. This course combines AUTO-040A and AUTO-040B.

Lecture Hours: 90 Lab Hours: 108 Repeatable: No Grading: Letter Grade
Transfer Status: CSU Degree Applicable: AA/AS
COD GE: None CSU GE: None IGETC: None

AUTO-043A **Hybrid, Fuel-Cell & Electric Technology** **Units: 3**

This course provides an introduction to hybrid electric drives that are combined with either an internal combustion engine or fuel cell. Hydrogen fuel cell operation, basic maintenance and applications for vehicle use are covered.

Prerequisite: AUTO-010

Lecture Hours: 36 Lab Hours: 54 Repeatable: No Grading: Letter Grade
Transfer Status: CSU Degree Applicable: AA/AS
COD GE: None CSU GE: None IGETC: None

AUTO-054C **Basic & Advanced Clean Air Car Course** **Units: 7**
(formerly AUTO-054A)

This course provides the student with the basic and advanced training to meet the requirements of the Bureau of Automotive Repair for a SMOG Technician. The course includes the Basic Clean Air Car Course material in addition to the OBD II Update course, the prior update courses, 8 Hour Dynamometer Transition course, and 20 Hour Advanced Diagnostic update course. This course combines AUTO-054A and AUTO-054B.

Advisory: AUTO-014A

Lecture Hours: 117 Lab Hours: 27 Repeatable: 5 Grading: Letter Grade
Transfer Status: CSU Degree Applicable: AA/AS
COD GE: None CSU GE: None IGETC: None

ENGLISH AS A SECOND LANGUAGE/Noncredit (ESLN)

ESLN-399 **ESL Language Lab** **Units: 0**

This open entry/open exit course is designed to provide additional opportunities for students enrolled in the ESL Noncredit program to develop their English skills, specifically in the areas of listening, speaking, reading, writing and grammar. Emphasis is on the use of multimedia equipment and materials, print and audiovisual materials.

Class Hours: Open Repeatable: Yes Grading: Pass/No Pass
Transfer Status: None Degree Applicable: NONC
COD GE: None CSU GE: None IGETC: None

Courses of Instruction

FIRE TECHNOLOGY (FIRE)

FIRE-063A Basic Fire Fighter I Academy Units: 11
(formerly FIRE-063)

This course provides individuals with the knowledge and skills to safely perform, under minimal supervision, essential and advanced fire ground tasks. These shall include basic rescue operations, auto extrication, basic fire suppression, prevention and investigation, a basic knowledge of the "Incident Command System" and an introduction to the potential dangers of hazardous materials. In addition, students will learn to use, inspect and maintain various types of firefighting and rescue equipment. Completion of this course satisfies the manipulative and academic training requirements as established by the State Fire Marshal to become certified as a Fire Fighter I.

Prerequisite: EMT-084 and FIRE-001

Advisory: ENG-051 and RDG-051

Limitation on Enrollment: Successful completion within one year of a Certified Physical Ability Test (CPAT). Safety gear and SCBA will be required. FIT testing is mandatory.

Lecture Hours: 162	Lab Hours: 108	Repeatable: No	Grading: Letter Grade
Transfer Status: None		Degree Applicable: AA/AS	
COD GE: None	CSU GE: None	IGETC: None	

NURSING (N)

N-001 Basic Concepts in Nursing Practice Units: 8

This course introduces students to the organizing framework of the program and to the nursing process. The focus is on optimum wellness. Basic care concepts and skills common to promoting, maintaining or restoring health are presented in the classroom and practiced in college and clinical laboratories. Care is focused on the needs of medical, surgical and geriatric clients. This course requires a materials fee of \$80.00 to cover equipment used by the student in the skills laboratory.

Prerequisite: BI-014, BI-015 and acceptance to the program

Lecture Hours: 72	Lab Hours: 216	Repeatable: No	Grading: Letter Grade
Transfer Status: CSU		Degree Applicable: AA/AS	
COD GE: None	CSU GE: None	IGETC: None	

N-002 Concepts of Nursing Practice for Commonly Occurring Alterations in Health Units: 9

This course builds on concepts introduced in Nursing 1 with emphasis on commonly occurring alterations in health in the medical, surgical, and pediatric client. Students receive lectures on campus and gain clinical skills in both the campus laboratory and in a local hospital. This course requires a materials fee of \$47.00 to cover equipment used by the student in the skills laboratory.

Prerequisite: BI-014, BI-015 and acceptance to the program

Lecture Hours: 72	Lab Hours: 216	Repeatable: No	Grading: Letter Grade
Transfer Status: CSU		Degree Applicable: AA/AS	
COD GE: None	CSU GE: None	IGETC: None	

N-003A Concepts of Nursing Practice for Complex Alterations in Health Units: 9

This course focuses on promoting, maintaining or restoring health of clients with alterations in psychological functioning and clients during the childbearing process. Previously learned principles of medical surgical nursing are applied. Clinical experience is provided in psychiatric, obstetrical and medical/surgical settings. This course requires a materials fee of \$46.00 to cover equipment used by the student in the skills laboratory.

Prerequisite: BI-014, BI-015 and acceptance to the program

Lecture Hours: 72	Lab Hours: 216	Repeatable: No	Grading: Letter Grade
Transfer Status: CSU		Degree Applicable: AA/AS	
COD GE: None	CSU GE: None	IGETC: None	

Courses of Instruction

N-055 Transition to Registered Nurse (formerly HS-055)

Units: 4

This course focuses on preparing the student for assuming the role of the registered nurse, as covered in the first year of the associate degree program. Skills lab and clinical practice focus on the application of therapeutic nursing interventions and critical thinking behaviors in select client populations. The course facilitates the transition of LVN and approved challenge/advanced placement students into the second year of the RN program. This course requires a material fee of \$78.00 to cover equipment used by the student in the skills laboratory.

Prerequisite: BI-013, BI-014, BI-015, CH-004, ENG-001A, MATH-054, and approval of advanced placement by the Nursing Department

Corequisite: Licensure as a Vocational Nurse in the state of California.

Lecture Hours: 54	Lab Hours: 54	Repeatable: No	Grading: Letter Grade
Transfer Status: None		Degree Applicable: NAA	
COD GE: None	CSU GE: None	IGETC: None	

PHYSICAL EDUCATION (PE)

PE-095 Exercise Science

Units: 2

This course is a study and exploration of the art and science of strength training via studies of historical research, biomechanics, neurophysiology, nutrition, safety considerations, and physical conditioning with emphasis on all technologies to achieve strength fitness over a lifetime and obtain maximum performance for any sports activities. All traditional strength development activities will be incorporated.

Lecture Hours: 18	Lab Hours: 54	Repeatable: No	Grading: Letter Grade
Transfer Status: CSU/UC*		Degree Applicable: AA/AS	
COD GE: None	CSU GE: None	IGETC: None	

VOCATIONAL NURSING (VN)

VN-010 Vocational Nursing I

Units: 9

This course introduces concepts related to the role of the vocational nurse, basic skills, legal and ethical issues, critical thinking, culturally congruent care, pharmacology, fluid/electrolytes, communication and confidentiality. A foundation in normal growth and development including the gerontologic client and end of life care is presented. Using a nursing process format, care of clients with alterations in musculoskeletal, integumentary, cardiac, endocrine systems, & LGP is presented. This course requires a material fee of \$88.00 to cover cost of equipment used in the skills laboratory.

Prerequisite: ENG-051, HS-013, HS-062, HS-067, PSY-001, and acceptance to the program

Corequisite: VN-010L

Lecture Hours: 162	Lab Hours: 0	Repeatable: No	Grading: Letter Grade
Transfer Status: None		Degree Applicable: AA/AS	
COD GE: None	CSU GE: None	IGETC: None	