

# 2017-2018 Catalog Addendum 3

December 2017

The College of the Desert Catalog Addendum represents course and program revisions made since the last publication of the Catalog. Included in this Addendum are new courses and certificates, and course changes. These changes replace what is printed in the current Catalog and are effective as of the Spring 2018. Instructions for understanding this addendum are as follows: <u>underline</u> indicates new material, <u>strikethrough</u> indicates a deletion.

BOT Approved: December 15, 2017

# **Programs of Study**

#### NEW CREDIT PROGRAMS effective Spring 2018

# Zero Net Energy (ZNE) Certificate of Achievement

The Zero Net Energy (ZNE) Certificate offers the students a broad overview into the energy conservation industry and includes cross-disciplinary courses in Energy Systems, Heating Ventilation and Air Conditioning, Architecture, Computer Information Systems, and Building Inspection Technology. Completion of the ZNE Certificate is especially beneficial for support staff currently working in the energy sector and when combined with other defined certificates within the ZNE industry, students will have the technical background that can lead to industry recognized credentials and careers as an Energy Auditor, Energy Consultant, ZNE Technician, Green HVAC Technician, Facility Management, Construction Management and Solar Residential Technician.

Required	Courses:
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ESYS-004	Industrial Calculations		
ESYS-005	Zero Net Energy Building Science	4	
ARCH-011	Architectural Blueprint Reading		
BIT-024	California Energy Codes		
CIS-010	Computer Literacy		
CIS-012	Professional Office Procedures		
CERTIFICATE TOTAL			
Advisors:	George Brown, gbrown@collegeofthedesert.edu, (760) 568-3238		
	Ramiro Galicia, rgalicia@collegeofthedesert.edu, (760) 674-7833		

## Zero Net Energy (ZNE) Technology Certificate of Achievement

The Zero Net Energy (ZNE) Technology Certificate provides the general knowledge of many variations of renewable energies. The technician can serve as a liaison between building stakeholders and a specialized technician or can continue to pursue a specialized credential. Zero Net Energy Technicians (ZNET) and building stakeholders work in a team environment, coordinating maintenance schedules, mechanical and electrical breakdowns. Together they verify that the building systems are working within the design conditions. This introductory certificate focuses on key factors involving design of Zero Net Energy (ZNE) buildings and maintenance. Students will learn the fundamentals of the ZNE building design through each step of design and construction process - from predesign to occupancy and operations. Operation and proper maintenance of the energy systems including HVAC, solar, lighting and envelope are analyzed in depth.

#### Required Courses:

ESYS-001	Energy Generation & Distribution Industry			
ESYS-002				
ARCH-002	2 Materials of Construction	4		
ACR-075	HVACR Systems Design			
ACR-077	Energy Conservation Methods for HVACR			
CERTIFICATE TOTAL				
Advisors:	George Brown, gbrown@collegeofthedesert.edu, (760) 568-3238			
	Ramiro Galicia, rgalicia@collegeofthedesert.edu, (760) 674-7833			

#### NEW NONCREDIT CERTIFICATES effective Spring 2018

## Advanced First Aid & Safety, CPR/AED Certificate of Completion

This two-course certificate will prepare individuals with skills and knowledge in the application of advanced first aid and emergency care for infants, children, and adults. It will also prepare individuals with skills, knowledge, and application in Cardiopulmonary Resuscitation (CPR) and Automated External Defibrillator (AED). The certificate is in alignment with the Emergency Care and Safety Institute.

Required Courses:	nits
KINE-301 Advanced First Aid & Safety	0
KINE-302 Advanced CPR & AED	
Advisors: Wendy Ansley, wansley@collegeofthedesert.edu, (760) 776-7203	
Courtney Doussett, cdoussett@collegeofthedesert.edu, (760) 776-7339	

## Air Properties & Economizer Performance Certificate of Completion

This program is designed to train HVAC technicians to understand Air properties and how it effects system performance. It is also designed to train technicians to properly install and set up economizers.

Required	Courses:	. Units
ACR-378A	Introduction to Refrigerants Management	0
ACR-378D	System Performance & Charging Procedures	0
ACR-378E	Study of Air Properties & Human Comfort	0
ACR-378F		
Advisors:	George Brown, gbrown@collegeofthedesert.edu, (760) 568-3238	
	Ramiro Galicia, rgalicia@collegeofthedesert.edu, (760) 674-7833	

### Proper HVAC System Preparation & System Charging Certificate of Completion

This program is designed to train HVAC Technicians the proper methods of system recovery, System Evacuation, and proper system charging.

Required Cours	es:	Units
ACR-378B	Recovery & Evacuation Practices in Refrigerant Management	0
ACR-378D	System Performance & Charging Procedures	0
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Ram	iro Galicia, <u>rgalicia@collegeofthedesert.edu</u> , (760) 674-7833	

#### Refrigerant Management & EPA-608 Preparation Certificate of Completion

This program is for the HVAC industry to learn the best methods for handling refrigerants, recovery, reclamation and evacuation. This program also prepares students for the EPA-608 Refrigerant Handling License.

Required Cours	ses:	Units
ACR-378A	Introduction to Refrigerants Management	0
ACR-378B	Recovery & Evacuation Practices in Refrigerant Management	
ACR-378C	EPA-608 Preparation for Refrigerant Management	
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	niro Galicia, rgalicia@collegeofthedesert.edu, (760) 674-7833	

#### NEW NONCREDIT COURSES effective Spring 2018

ACR-378A Intro	duction to Refrigerar	nts Management	Units: 0
This course is module 1 of 3	3. This course is designed	for both the novice and exist	ing workforce to understand the basic terms as they apply
to Environmental Protection			refrigeration process and how to apply these principles to
a refrigeration system.		Depentable: Vee	Creding: Doog (No Doog
Lecture Hours: 18	Lab Hours: 0	Repeatable: Yes	Grading: Pass/No Pass
Transfer Status: None		Degree Applicable: NO	
COD GE: None	CSU GE: None	IGETC: None	
ACR-378B Recov	very and Evacuation Pr	actices in Refrigerant Ma	nagement Units: 0
This course is module 2 of evacuation processes neces			existing workforce to understand the proper recovery and
Lecture Hours: 6	Lab Hours: 12	Repeatable: Yes	Grading: Pass/No Pass
Transfer Status: None		Degree Applicable: NO	
	CCU CE: Nono		
COD GE: None	CSU GE: None	IGETC: None	
ACR-378C EPA-6	08 Preparation for Ref	frigerant Management	Units: 0
			f Completion and for the proper system preparation and
system charging Certificate	of Completion. The cours	se is designed for both the r	novice and existing workforce to prepare for the EPA-608
refrigerant handling license completes this course for th			erials fees are required of each student that successfully
Lecture Hours: 9	Lab Hours: 9	Repeatable: Yes	Grading: Pass/No Pass
Prerequisite: ACR-378A and	I ACR-378B		
Transfer Status: None		Degree Applicable: NO	NC
COD GE: None	CSU GE: None	IGETC: None	
	m Performance and Ch		Units: 0
0		0	how to properly prepare and charge an air conditioning
Lecture Hours: 6	Lab Hours: 12	vironmental Protection Ageno	
Prerequisite: ACR-378B and		Repeatable: Yes	Grading: Pass/No Pass
•	1 ACR-37 OC UI EPA-000 U		NO
Transfer Status: None		Degree Applicable: NO	INC
	CCU CE, Nama		
COD GE: None	CSU GE: None	IGETC: None	
			Units: 0
ACR-378E Study	of Air Properties and H	Iuman Comfort	<b>Units: 0</b> ing workforce to understand air properties and how they
ACR-378E Study This course is module 3 of 4 affect human comfort. Stud	of Air Properties and H 4. The course is designed ents will learn how to wor	Human Comfort for both the novice and exist	
ACR-378E Study This course is module 3 of 4 affect human comfort. Stud system charging and econo	r of Air Properties and H 4. The course is designed ents will learn how to wor mizer setup.	Human Comfort for both the novice and exist k with, and understand the p	ing workforce to understand air properties and how they process of plotting a psychrometric diagram and use it in
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ACR-378EStudyThis course is module 3 of 4affect human comfort. Studsystem charging and econoLecture Hours: 9Prerequisite: ACR-378ATransfer Status: NoneCOD GE: NoneACR-378FIndooThis course is module 4 of 4repair economizers. This coLecture Hours: 9Prerequisite: ACR-378A andTransfer Status: NoneCOD GE: NoneKINE-301This advanced course involvassess a victim's condition aThe course content is in aliprovide valuable retrainingLecture Hours: 4	<ul> <li><b>r of Air Properties and H</b></li> <li>The course is designed ents will learn how to wor mizer setup.</li> <li>Lab Hours: 9</li> <li>CSU GE: None</li> <li><b>r Air Quality and Econo</b></li> <li>The course is designed of the course will also cover replace Lab Hours: 9</li> <li>I ACR-378E</li> <li>CSU GE: None</li> <li>Advanced First Aid ves the theory and detaile and develop the skills and gnment with the Emerger for employment opportun Lab Hours: 0</li> </ul>	Human Comfort for both the novice and exist k with, and understand the p Repeatable: Yes Degree Applicable: NO IGETC: None mizers for both the novice and existi ement, installation and setu Repeatable: Yes Degree Applicable: NO IGETC: None and Safety d demonstration of the first a t knowledge in Advanced First poy Care and Safety Institute ities. Students receive a Pass Repeatable: Yes	ting workforce to understand air properties and how they brocess of plotting a psychrometric diagram and use it in Grading: Pass/No Pass NC Units: 0 ing workforce to understand how to properly diagnose and p of economizers. Grading: Pass/No Pass NC Units: 0 aid care of the injured or suddenly ill. Students will learn to st Aid and Emergency care for infants, children and adults. This course is the first part of a two-course certificate to s/No Pass grade mark. Grading: Pass/No Pass ledge, skills, certification in first aid.
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Cardiopulmonary Resuscitation procedure of an Automatic Ext course is the second course of	n (CPR) in emergency sett ernal Defibrillator (AED). The of a two-course certificate required of each student t	tings for infants, children a he course content is in aligr providing valuable retrainir hat successfully completes	advanced skills and knowledge necessary to apply and adults as well as being skilled in the application and ment with the Emergency Care and Safety Institute. This ng for job opportunities. The Emergency Care and Safety s this two course certificate for Advanced First Aid and
Lecture Hours: 4	Lab Hours: 0	Repeatable: Yes	Grading: Pass/No Pass
Prerequisite: KINE-301			
Transfer Status: None		Degree Applicable: NON	С
COD GE: None	CSU GE: None	IGETC: None	-
		Idero. None	
	COURSE MOI	DIFICATIONS effective	Spring 2018
maintenance, drivability, inve Electric vehicle applications a maintenance procedures. This <b>Prerequisite:</b> AUTO-010 or cor	f Hybrid and Electric batter rter, DC/DC power transfe nd their integrated system s course could be a prepar neurrent enrollment	er, and battery technology. Is from many manufacturer	rtation. Topics will include safety when using high voltage, Physics of battery storage, Hybrid generation systems, rs will be discussed. Hybrid and high voltage service and ccessfully complete the L-3 ASE exam.
Lecture Hours: 36	Lab Hours: 54	Repeatable: No	Grading: Letter
Transfer Status: CSU		Degree Applicable: AA/A	AS
COD GE: None	CSU GE: None	IGETC: None	
overview of higher education,	student support services	n and develop the skills ne (including financial aid), st	Units: 1 ccessary for success in college. Course topics include an udy skills (including time management, note taking and
test preparation), and an inti consistent with their education		career development. Stud	lents are helped to develop realistic educational plans
Lecture Hours: 18	Lab Hours: None	Repeatable: No	Grading: Student Option
Prerequisite: None			
Advisory: None			
Transfer Status: None CSU		Degree Applicable: NAA	AA/AS
COD GE: None	CSU GE: None	IGETC: None	<u>,</u>
EDUC-001		entary Classroom Teachi	-
Kindergarten through grade 1 American education system, of standards. In addition to class	2 (K-12). Topics include te contemporary educational s time, the course require erse student population, a r. (C-ID EDUC 200)	eaching as a profession and issues, California's conten s a minimum of 45 hours	ing diverse learners in today's contemporary schools, d career, historical and philosophical foundations of the it standards and frameworks, and teacher performance of structured fieldwork in public elementary classrooms ith at least one carefully selected and campus-approved
Lecture Hours: <del>36</del> 54	Lab Hours: 54 None	Repeatable: No	Grading: Letter
Transfer Status: CSU/UC*		Degree Applicable: AA/A	-
COD GE: None	CSU GE: E	IGETC: None	
examined in this course. Thes economics and the future of t applied to electricity. Hand to for entering into the power inc skill" workforce training. Prerequisite: None Advisory: MATH-060 or ESYS-0	wer generation infrastruct e areas will be supported b the power industry. An intr ols, power tools, construct dustry. Communication an 2004 & ENG-070	by the fundamentals of the p oduction to <del>construction m</del> ion drawings, material han d employability skills will be	neration and potential employment opportunities will be power industry including; safety practices, power industry nath, hand electrical and construction calculation will be indling and basic rigging will form the basis of knowledge e introduced to provide the student with additional "soft-
Lecture Hours: 54	Lab Hours: None	Repeatable: No	Grading: Letter
Transfer Status: None		Degree Applicable: AA/A	IS
COD GE: None	CSU GE: None	IGETC: None	

#### Advanced CPR and AED

KINE-302

Units: 0