

ACT 320D: CONSTRUCTION & THE ENVIRONMENT

New Course Proposal

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Originator

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Justification / Rationale

Construction is one of the top employment opportunities in the Coachella Valley and with the new Title 24 requirements for Zero Net Energy construction, there is a need for a more educated construction workforce. This course is one of three modules of a non-credit overlay version of CM 020 Introduction to Construction Technology. Module 1 covers tools, equipment, safety and green concepts; Module 2 provides training and review of the basic math skills required for construction; Module 3 provides an awareness of career opportunities in the construction industry and the employability skills required to succeed in those careers. Providing this non-credit version allows those currently unemployed or underemployed to gain the skills and knowledge required to obtain and succeed in construction jobs; providing the modules as a credit overlay allows students to qualify for credit by exam and move into a credit pathway to continue education.

Effective Term

Fall 2020

Credit Status

Noncredit

Subject

ACT - Applied Construction Technolog

Course Number

320D

Full Course Title

Construction & the Environment

Short Title

GREEN CONSTRUCTION

Discipline

Disciplines List

Construction Technology

Building Codes and Regulations (Inspecting of construction, building codes, contractor training)

Architecture

Carpentry

Construction Management

Plumbing

Electricity (Electrical power distribution)

Modality

Face-to-Face

100% Online

Catalog Description

This course emphasizes green construction practices and the impact of construction on the environment.

Schedule Description

This course emphasizes green construction practices, jobsite safety, practical knowledge of tool and equipment use, basic rigging techniques, and communication.

Non-credit Hours

18

Lecture Units

0

Lecture Semester Hours

0

Lab Units

0

Lab Semester Hours

0

In-class Hours

9

Out-of-class Hours

9

Total Course Units

0

Total Semester Hours

18

Override Description

Noncredit courses do not have lecture and lab. The out of class hours were adjusted to provide the same total as the equivalent credit course.

Required Text and Other Instructional Materials**Resource Type**

Book

Author

National Center for Construction Education and Research (NCCER)

Title

Your Role in the Green Environment (Trainee Guide)

Edition

3rd

City

Upper Saddle River, NJ

Publisher

Pearson Education, Inc.

Year

2016

College Level

Yes

Flesch-Kincaid Level

11.8

ISBN #

978-0132948630

Class Size Maximum

30

Course Content

1. Overview of green construction practices.
2. Impact of construction on the environment.
3. Green building rating system.

Course Objectives

	Objectives
Objective 1	Discuss green construction practices.
Objective 2	Discuss green building rating system.
Objective 3	Understand the impact of construction to the environment.
Objective 4	Discuss alternative construction practices to reduce the impact of construction to the environment.

Student Learning Outcomes

Upon satisfactory completion of this course, students will be able to:	
Outcome 1	Recognize alternative construction practices to reduce the impact of construction on the environment.

Methods of Instruction

Method	Please provide a description or examples of how each instructional method will be used in this course.
Lecture	Presentation of topic in context.
Discussion	Classroom and group discussions.
Participation	Class discussion and questions.

Methods of Evaluation

Method	Please provide a description or examples of how each evaluation method will be used in this course.	Type of Assignment
Written homework	Homework assigned from text and worksheets.	Out of Class Only
Student participation/contribution	Participation in lab groups and classroom/online discussion. Lab may include in person or virtual site visits out-of-class.	In and Out of Class
Mid-term and final evaluations	Examinations covering key concepts introduced in the course.	In Class Only
Tests/Quizzes/Examinations	Weekly quizzes on topics covered in class and analysis of job sites. Quizzes completed out-of-class with in-class discussion of results.	In and Out of Class
Other	Out-of-class hours will be accounted for electronically through the learning management system.	Out of Class Only

Assignments
Other In-class Assignments

1. Individual projects to analyze and evaluate the impact of construction on the environment.
2. Individual projects to analyze green building requirements and the green rating system.
3. Small group projects to analyze, review, diagnose and evaluate environmental and green opportunities in construction.

Other Out-of-class Assignments

1. Completing daily assigned homework and complete pretests.
2. Reading textbook and supplementary assignments.
3. Outside readings to examine the impact various construction projects have had on the environment.
4. Outside analysis of buildings meeting the green requirements.

Grade Methods

Pass/No Pass Only

Distance Education Checklist**Instructional Materials and Resources****Effective Student/Faculty Contact**

Which of the following methods of regular, timely, and effective student/faculty contact will be used in this course?

Within Course Management System:

Timely feedback and return of student work as specified in the syllabus
Discussion forums with substantive instructor participation
Chat room/instant messaging
Regular virtual office hours
Online quizzes and examinations
Weekly announcements

External to Course Management System:

Direct e-mail

Briefly discuss how the selected strategies above will be used to maintain Regular Effective Contact in the course.

Timely feedback and return of student work as specified in the syllabus.
Discussion forums with substantive instructor participation.
Online quizzes and examinations.
Weekly announcements.

Other Information**MIS Course Data****CIP Code**

46.0412 - Building/Construction Site Management/Manager.

TOP Code

095700 - Civil and Construction Management Technology

SAM Code

D - Possibly Occupational

Basic Skills Status

Not Basic Skills

Prior College Level

Not applicable

Cooperative Work Experience

Not a Coop Course

Course Classification Status

Workforce Prep Enhanced Funding

Approved Special Class

Not special class

Noncredit Category

Workforce Preparation

Funding Agency Category

Not Applicable

Program Status

Program Applicable

Transfer Status

Not transferable

Allow Audit

No

Repeatability

Yes

Repeatability Limit

NC

Repeat Type

Noncredit

Justification

Noncredit courses are repeatable until the student has achieved the skills and knowledge required to meet the objectives and outcomes of the course.

Materials Fee

No

Additional Fees?

No

Approvals**Curriculum Committee Approval Date**

10/17/2019

Academic Senate Approval Date

10/24/2019

Board of Trustees Approval Date

11/13/2019

Chancellor's Office Approval Date

01/10/2020

Course Control Number

CCC000611517

Programs referencing this courseConstruction Technology Introduction Certificate of Completion (<http://catalog.collegeofthedesert.eduundefined?key=280/>)Construction Technology Career Preparation Certificate of Completion (<http://catalog.collegeofthedesert.eduundefined?key=292/>)