

ABE 348B: PHYSICAL SCIENCE

Originator

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Co-Contributor(s)**Name(s)**

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Justification / Rationale

Add online component
Add textbook's ISBN number
Correct the Flesch-Kincaid level

Effective Term

Fall 2022

Credit Status

Noncredit

Subject

ABE - Adult Basic Education

Course Number

348B

Full Course Title

Physical Science

Short Title

PHYSICAL SCIENCE

Discipline**Disciplines List**

Interdisciplinary-Basic Skills: Noncredit

Modality

Face-to-Face
100% Online

Catalog Description

This course is designed to provide students with an understanding of the forms of matter and energy that make up the physical universe. Students study the things around them. Two areas covered are chemistry and physics.

Schedule Description

The student will learn of the things around them. Two areas covered will be chemistry and physics.

Non-credit Hours

80

Lecture Units

0

Lab Units

0

In-class Hours

80

Out-of-class Hours

0

Total Course Units

0

Total Semester Hours

0

Override Description

Noncredit

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

Book

Author

Marshall, R., Jacobs, D., Rosskopf, A., LaRue, C.

Title

General Science

City

Circle Pines, MN

Publisher

AGS Publishing.

Year

2004

College Level

No

Flesch-Kincaid Level

9.2

ISBN #

978-078-5436461

For Text greater than five years old, list rationale:

The general and fundamental science presented in this textbook has not changed.

Class Size Maximum

50

Course Content

1. Radioactivity
2. Force and energy
3. Light
4. Sound
5. Magnetism and electricity
6. Matter
7. Thermal energy and heat

Course Objectives

Objectives	
Objective 1	Explain the basic structure of matter
Objective 2	Identify the different forms of energy
Objective 3	Describe how sound waves are produced and how they travel
Objective 4	Explain reflection, diffraction, and retraction of light

Student Learning Outcomes

Upon satisfactory completion of this course, students will be able to:	
Outcome 1	Identify concepts of matter, energy, chemistry, and physics.

Methods of Instruction

Method	Please provide a description or examples of how each instructional method will be used in this course.
Individualized Study	Textbooks are provided in class, online, and at the reference desk at the COD library. Students read, take notes at their own pace, with their own methods, and when ready, they test.

Methods of Evaluation

Method	Please provide a description or examples of how each evaluation method will be used in this course.	Type of Assignment
Tests/Quizzes/Examinations	When the class is face-to-face, 100% of text reading, study, and topic exams happens in class. When the class is 100% online, 100% of text reading, study, and exams are done outside of class; testing is online. In either mode, tests are immediately graded.	In and Out of Class
Self-paced testing	Students study their notes, topic reviews, flash cards and/or Key Terms to prepare for testing.	In and Out of Class

Assignments

Other In-class Assignments

1. Lesson review
2. Vocabulary development
3. Mastery review
4. Careers and issues in science

Other Out-of-class Assignments

1. Lesson review
2. Vocabulary development
3. Mastery review
4. Careers and issues in science

Grade Methods

Pass/No Pass Only

Distance Education Checklist

Instructional Materials and Resources

If you use any other technologies in addition to the college LMS, what other technologies will you use and how are you ensuring student data security?

N/A

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:

Discussion forums with substantive instructor participation
Online quizzes and examinations
Private messages
Regular virtual office hours
Timely feedback and return of student work as specified in the syllabus
Weekly announcements

External to Course Management System:

Direct e-mail
Posted audio/video (including YouTube, 3cm mediasolutions, etc.)
Teleconferencing
Telephone contact/voicemail

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

Students have access to the instructor through discussion forums, weekly virtual office hours (morning and evening), private virtual office hours by appointment, Canvas email, direct email, zoom teleconferencing, and personal telephone when necessary. Additional discussion boards are attached to short subject videos.

Other Information

Provide any other relevant information that will help the Curriculum Committee assess the viability of offering this course in an online or hybrid modality.

The students enrolled in the Adult Basic Education High School or GED noncredit programs are most often working adults supporting families. The online version allows these students, who would otherwise find it difficult to attend scheduled in-class time slots, to continue their education. In this way, they can accommodate their educational goals during the hours that suit them best, while also meeting the needs of family and work schedules. There has been a noticeable jump in Course Completions (completed courses) since the online option became available.

MIS Course Data

CIP Code

53.0201 - High School Equivalence Certificate Program.

TOP Code

493062 - High School Diploma Program/GED

SAM Code

E - Non-Occupational

Basic Skills Status

Basic Skills

Prior College Level

Not applicable

Cooperative Work Experience

Not a Coop Course

Course Classification Status

Other Non-credit Enhanced Funding

Approved Special Class

Not special class

Noncredit Category

Elem/Secondary Basic Skills

Program Status

Program Applicable

Transfer Status

Not transferable

Allow Audit

No

Repeatability

Yes

Repeatability Limit

NC

Repeat Type

Noncredit

Justification

Noncredit

Materials Fee

No

Additional Fees?

No

Approvals**Curriculum Committee Approval Date**

11/18/2021

Academic Senate Approval Date

12/09/2021

Board of Trustees Approval Date

01/21/2022

Chancellor's Office Approval Date

06/15/2011

Course Control Number

CCC000330863

Programs referencing this courseAdult High School Diploma (<http://catalog.collegeofthedesert.eduundefined/?key=188>)