

Course Outline of Record

1. Course Code: ABE-348B
2.
  - a. Long Course Title: Physical Science
  - b. Short Course Title: PHYSICAS SCIENCE
3.
  - a. Catalog Course 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.
  - b. Class Schedule Course Description:  
 Students study the things around them. Two areas covered are chemistry and physics. Students receive a Pass/No Pass grade mark.
  - c. Semester Cycle (if applicable): Course is offered Fall, Spring and Summer sessions.
  - d. Name of Approved Program(s):
    - SECONDARY EDUCATION (High School Diploma)
4. Total Units: 0      Total Semester Hrs: 90.00  
 Lecture Units: 0      Semester Lecture Hrs: 0  
 Lab Units: 0      Semester Lab Hrs: 90.00  
 Class Size Maximum: 50      Allow Audit: No  
 Repeatability Repeatable 3 Times  
 Justification Noncredit course
5. Prerequisite or Corequisite Courses or Advisories:  
*Course with requisite(s) and/or advisory is required to complete Content Review Matrix (CCForm I-A)*  
*N/A*
6. Textbooks, Required Reading or Software: (List in APA or MLA format.)
  - a. Marshall, R., Jacobs, D., Roskopf, A., LaRue, C. (2004). General Science Circle Pines, MN AGS Publishing..  
 College Level: No  
 Flesch-Kincaid reading level: 7.7
7. Entrance Skills: *Before entering the course students must be able:*
8. Course Content and Scope:

Lecture:

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

Lab: (if the "Lab Hours" is greater than zero this is required)

1. Radioactivity
2. Force and Energy
3. Light
4. Sound
5. Magnetism and Electricity
6. Matter

7. Thermal energy and heat

9. Course Student Learning Outcomes:

1. Identify the concepts of reflection, diffraction and retraction of light
2. Describe how sound waves are produced and travel.
3. Differentiate between forms of energy

10. Course Objectives: *Upon completion of this course, students will be able to:*

- a. Explain the basic structure of matter
- b. Identify the different forms of energy
- c. Understand how sound waves are produced and how they travel
- d. Explain the reflection, diffraction and retraction of light

11. Methods of Instruction: *(Integration: Elements should validate parallel course outline elements)*

- a. Individualized Study

Other Methods:

Individual, independent work on a self-paced program

12. Assignments: *(List samples of specific activities/assignments students are expected to complete both in and outside of class.)*

In Class Hours: 90.00

Outside Class Hours: 0

- a. In-class Assignments

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- b. Out-of-class Assignments

a. Lesson review b. Vocabulary development c. Mastery review e. Careers and issues in science

13. Methods of Evaluating Student Progress: *The student will demonstrate proficiency by:*

- Self-paced testing
- True/false/multiple choice examinations
- Mid-term and final evaluations

14. Methods of Evaluating: Additional Assesment Information:

- a. Successful completion of unit tests
- b. Successful completion of final exam

15. Need/Purpose/Rationale -- *All courses must meet one or more CCC missions.*

PO-BS Independent Study Skills

Recognize that the responsibility for learning and growth is their own.

IO - Personal and Professional Development

Self-evaluate knowledge, skills, and abilities.

Display habits of intellectual exploration, personal responsibility, and physical well being.

16. Comparable Transfer Course

University System	Campus	Course Number	Course Title	Catalog Year
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17. Special Materials and/or Equipment Required of Students:

Calculator

18. Materials Fees:  Required Material?

Material or Item	Cost Per Unit	Total Cost
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19. Provide Reasons for the Substantial Modifications or New Course:

Periodic review.

- 20. a. Cross-Listed Course (Enter Course Code): N/A
- b. Replacement Course (Enter original Course Code): N/A

21. Grading Method (choose one): Pass/No Pass Only

22. MIS Course Data Elements

- a. Course Control Number [CB00]: CCC000330863
  - b. T.O.P. Code [CB03]: 493062.00 - Secondary Education (Grad
  - c. Credit Status [CB04]: N - Noncredit
  - d. Course Transfer Status [CB05]: C = Non-Transferable
  - e. Basic Skills Status [CB08]: 1B = Course is a basic skills course
  - f. Vocational Status [CB09]: Not Occupational
  - g. Course Classification [CB11]: K - Other Noncredit Enhanced Funding
  - h. Special Class Status [CB13]: N - Not Special
  - i. Course CAN Code [CB14]: N/A
  - j. Course Prior to College Level [CB21]: Y = Not Applicable
  - k. Course Noncredit Category [CB22]: C - Elementary and Secondary Basic Skills
  - l. Funding Agency Category [CB23]: Y = Not Applicable
  - m. Program Status [CB24]: 1 = Program Applicable
- Name of Approved Program (if program-applicable): SECONDARY EDUCATION (High School Diploma)  
*Attach listings of Degree and/or Certificate Programs showing this course as a required or a restricted elective.)*

23. Enrollment - Estimate Enrollment

First Year: 0  
Third Year: 0

24. Resources - Faculty - Discipline and Other Qualifications:

- a. Sufficient Faculty Resources: Yes
- b. If No, list number of FTE needed to offer this course: N/A

25. Additional Equipment and/or Supplies Needed and Source of Funding.

N/A

26. Additional Construction or Modification of Existing Classroom Space Needed. (Explain:)

N/A

27. FOR NEW OR SUBSTANTIALLY MODIFIED COURSES

Library and/or Learning Resources Present in the Collection are Sufficient to Meet the Need of the Students Enrolled in the Course: Yes

28. Originator Tyrone Thomas Origination Date 10/01/14