

ABSE32 : PHYSICAL SCIENCE 1A

General Information

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Course Code (CB01) :	ABSE32
Course Title (CB02) :	PHYSICAL SCIENCE 1A
Department:	ABSE
Proposal Start:	Fall 2025
TOP Code (CB03) :	(4930.62) Secondary Education (Grades 9-12) and G.E.D.
CIP Code:	(53.0201) High School Equivalence Certificate Program.
SAM Code (CB09) :	Non-Occupational
Distance Education Approved:	No
Will this course be taught asynchronously?:	Yes
Course Control Number (CB00) :	CCC000338473
Curriculum Committee Approval Date:	04/09/2025
Board of Trustees Approval Date:	07/16/2024
Last Cyclical Review Date:	05/22/2024
Course Description and Course Note:	ABSE 32 is a high school level course designed to acquaint students with the basic physical properties of matter, atoms, compounds, and simple chemical equations. This class is equivalent to the first semester of Physical Science and meets the requirements of a high school diploma. Laboratory 100 hours. Note: This is a self-paced course in an open-entry, open-exit lab environment. Successful completion of the course results in 5 high school credits.
Justification:	Mandatory Revision
Academic Career:	<ul style="list-style-type: none">Noncredit
Mode of Delivery:	<ul style="list-style-type: none">Online
Author:	No value
Course Family:	No value

Academic Senate Discipline

Primary Discipline:	<ul style="list-style-type: none">Interdisciplinary-Basic: Skills: Non-Credit
Alternate Discipline:	No value
Alternate Discipline:	No value

Course Development

Basic Skill Status (CB08)

Course is a basic skills course.

Allow Students to Gain Credit by Exam/Challenge

Course Special Class Status (CB13)

Course is not a special class.

Pre-Collegiate Level (CB21)

Not applicable.

Grading Basis

- Grade Only

Course Support Course Status (CB26)

Course is not a support course

General Education and C-ID

General Education Status (CB25)

Not Applicable

Transferability

Not transferable

Transferability Status

Not transferable

Units and Hours

Summary

Minimum Credit Units (CB07) 0

Maximum Credit Units (CB06) 0

Total Course In-Class (Contact) Hours 100

Total Course Out-of-Class Hours 0

Total Student Learning Hours 100

Credit / Non-Credit Options

Course Type (CB04)

Non-Credit

Noncredit Course Category (CB22)

Elementary and Secondary Basic Skills.

Noncredit Special Characteristics

No Value

Course Classification Code (CB11)

Other Non-Credit Enhanced Funding.

Variable Credit Course

Funding Agency Category (CB23)

Not Applicable.

Cooperative Work Experience

Education Status (CB10)

Weekly Student Hours

	In Class	Out of Class
Lecture Hours	0	0
Laboratory Hours	100	0
Studio Hours	0	0

Course Student Hours

Course Duration (Weeks)	18
Hours per unit divisor	54
Course In-Class (Contact) Hours	
Lecture	0
Laboratory	100
Studio	0

Total 100

Course Out-of-Class Hours

Lecture	0
Laboratory	0
Studio	0
Total	0

Time Commitment Notes for Students

This is a self-paced course in an open-entry, open-exit lab environment.

Units and Hours - Weekly Specialty Hours

Activity Name	Type	In Class	Out of Class
No Value	No Value	No Value	No Value

Prerequisites, Corequisites, Recommended Corequisites, and Recommended Preparation

Advisory

ESL30 - ENGLISH AS A SECOND LANGUAGE LEVEL 3

Objectives

- Write paragraphs at the low-intermediate level with sufficient unity.
- Develop coherence and mechanical accuracy.
- Demonstrate mastery of grammatical structures studied at a level sufficient to pass unit tests and the divisional grammar mastery test for this level.
- Converse at a functional level adequate for everyday use on the campus and in the community.
- Respond to questions about recorded and live speeches, dialogues, role plays, and lectures.
- Decode 2,500-word reading passages, respond to inference and recall questions, and utilize a monolingual English dictionary to advantage.

Entry Standards

Entry Standards	Description
No value	No value

Course Limitations

Cross Listed or Equivalent Course	Description
No value	No value

Requisite Validation

Upload Statistical Validation and/or other documents (if necessary)

No Value

Specifications

Methods of Instruction

Methods of Instruction Independent Study

Methods of Instruction Multimedia

Methods of Instruction Lecture

Out of Class Assignments

N/A

Methods of Evaluation

Rationale

Other

Completion of individualized contract

Exam/Quiz/Test

Unit exams

Textbook Rationale

No updated editions of Common Core textbook, but still accurate and comprehensive content coverage. Newer OER material included.

Textbooks

Author	Title	Publisher	Date	ISBN
Glencoe	Physical iScience	New York: Glencoe/McGraw- Hill	2011	978-0078880049

Other Instructional Materials (i.e. OER, handouts)

Description

OpenStax - Physics High School

Author

Fatih Gozuacik, Denise Pattison, Catherine Tabor

Citation

Gozuacik, F., Pattison, D., & Tabor, C. (2019, February 14). Physics High School. OpenStax. OpenStax | Free Textbooks Online with No Catch. (n.d.-b). @Openstax/Os-webview. <https://openstax.org/details/books/physics>

Online Resource(s)

Digital: ISBN-13: 978-1-951693-21-3

Description	OpenStax - Chemistry
Author	Don Frantz, Paul Hooker, George Kaminski
Citation	Frantz, D., Hooker, P., & Kaminski, G. (2019, February 14). Chemistry. OpenStax. https://openstax.org/details/books/chemistry-2e
Online Resource(s)	Digital: ISBN-13: 978-1-947172-61-6

Description	Instructor-generated materials covering discipline topics, along with duplicate booklets from books obtained with copyright permission.
Author	No value
Citation	No value
Online Resource(s)	No value

Learning Outcomes

Course Objectives

List the properties of matter.

Describe atoms, molecules, elements, and compounds.

Analyze and use the periodic table of compounds, acids and bases.

Interpret and write balanced equations.

Name and explain the four main types of chemical reactions.

SLOs

Apply use of metric measurements and conversions.

Expected Outcome Performance: 70.0

ABSE Apply the skills that the Common Core Standards have identified for each course.
Core
PLOs

ILOs Use quantitative and/or analytical mathematical skills to solve problems and to interpret, evaluate, and process information and data to draw logical conclusions and support claims.
Core
ILOs

Explain characteristics of atoms and molecules.

Expected Outcome Performance: 70.0

ABSE Apply the skills that the Common Core Standards have identified for each course.
Core
PLOs

ILOs Demonstrate depth of knowledge in a course, discipline, or vocation by applying practical knowledge, skills, abilities, theories, or methodologies to solve unique problems.
Core
ILOs

Apply understanding of the periodic table to identify symbols for elements, metals, non-metals, and gases. Expected Outcome Performance: 70.0

ABSE Apply the skills that the Common Core Standards have identified for each course.
Core
PLOs

ILOs Demonstrate depth of knowledge in a course, discipline, or vocation by applying practical knowledge, skills, abilities, theories, or
Core methodologies to solve unique problems.
ILOs

Describe how compounds are formed and explain chemical changes.

Expected Outcome Performance: 70.0

ABSE Apply the skills that the Common Core Standards have identified for each course.
Core
PLOs

ILOs Communicate clearly, ethically, and creatively; listen actively and engage respectfully with others; consider situational, cultural, and personal
Core contexts within or across multiple modes of communication.
ILOs

Demonstrate depth of knowledge in a course, discipline, or vocation by applying practical knowledge, skills, abilities, theories, or methodologies to solve unique problems.

Additional SLO Information

Does this proposal include revisions that might improve student attainment of course learning outcomes?

No

Is this proposal submitted in response to learning outcomes assessment data?

No

If yes was selected in either of the above questions for learning outcomes, explain and attach evidence of discussions about learning outcomes.

No Value

SLO Evidence

No Value

Course Content

Lecture Content

No value

Laboratory/Studio Content

Measurement (10 hours)

- Physical science
 - Chemistry
 - Physics
- Scientific measurement
 - English system
 - Metric system (length, area, volume, and mass)

The Properties of Matter (10 hours)

- Mass verses weight
- Measuring
 - Mass of a liquid
 - The volume of a liquid
 - The volume of solid objects
- Density

The Structure of Matter (20 hours)

- Molecules and states of matter
- Elements
- Compounds
- Atoms
 - Models of atoms
 - Observations
- Identifying elements

Classifying Elements (20 hours)

- Element symbols
- The periodic table
 - Isotopes
 - Atomic mass
- Metals, nonmetals and noble gases
 - Identifying nonmetals
 - Electricity and metals

Compounds (20 hours)

- Characteristics of compounds
- How compounds are formed
 - Arrangement of electrons in an atom
 - How atoms combine
- Chemical formulas
- How compounds are named
- Acids and bases

How Matter Changes (20 hours)

- Reactions
 - Separating a mixture
 - Dissolving a mixture
- Showing reactions with chemical equations
 - Law of conservation of matter
 - Balancing equations
- Synthesis and decomposition reactions
- Single- and double-replacement reactions

Total Hours: 100**Additional Information****Repeatability**

Repeatable

Justification (if repeatable was chosen above)

Non-credit courses

Is it possible this course will have a material fee?

No

I have contacted my library liaison (<https://campusguides.glendale.edu/faculty/liaisons>):

Yes

What term(s) will this course be offered?

Fall/Winter/Spring/Summer

Will any additional resources be needed for this course? (Click all that apply)

- No

If additional resources are needed, add a brief description and cost in the box provided.

No Value