

## ABSE30 : LIFE SCIENCE 1A

### General Information

Author:	<ul style="list-style-type: none"> <li>Jesus Carino</li> </ul>
Course Code (CB01) :	ABSE30
Course Title (CB02) :	LIFE SCIENCE 1A
Department:	ABSE
Proposal Start:	Spring 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?:	No
Course Control Number (CB00) :	CCC000321284
Curriculum Committee Approval Date:	05/08/2024
Board of Trustees Approval Date:	07/16/2024
Last Cyclical Review Date:	05/08/2024
Course Description and Course Note:	ABSE 30 is a high school level course designed to give an overview of life science from cells through the plant kingdom. It includes the characteristics of life, cells structure and function, heredity, evolution, and the classification of plants. This is the first half of a one-year course. 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"> <li>Noncredit</li> </ul>
Author:	

### Academic Senate Discipline

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

### Course Development

<b>Basic Skill Status (CB08)</b> Course is a basic skills course.  <input type="checkbox"/> Allow Students to Gain Credit by Exam/Challenge	<b>Course Special Class Status (CB13)</b> Course is not a special class.  <b>Pre-Collegiate Level (CB21)</b> Not applicable.	<b>Grading Basis</b> <ul style="list-style-type: none"> <li>Grade Only</li> </ul> <b>Course Support Course Status (CB26)</b> Course is not a support course
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## Transferability & Gen. Ed. Options

### General Education Status (CB25)

Not Applicable

### Transferability

Not transferable

### Transferability Status

Not transferable

## Units and Hours

### Summary

<b>Minimum Credit Units (CB07)</b>	0
<b>Maximum Credit Units (CB06)</b>	0
<b>Total Course In-Class (Contact) Hours</b>	100
<b>Total Course Out-of-Class Hours</b>	0
<b>Total Student Learning Hours</b>	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

<b>Course Duration (Weeks)</b>	18
<b>Hours per unit divisor</b>	54
<b>Course In-Class (Contact) Hours</b>	
Lecture	0
Laboratory	100
Studio	0
<b>Total</b>	100
<b>Course Out-of-Class Hours</b>	
Lecture	0
Laboratory	0
Studio	0
<b>Total</b>	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

## Pre-requisites, Co-requisites, Anti-requisites and Advisories

### Advisory

ESL40 - ENGLISH AS A SECOND LANGUAGE LEVEL 4

#### Objectives

- Demonstrate mastery of grammatical structures studied at a level sufficient to pass unit tests and the divisional grammar mastery test for this level.
- Write a three-paragraph composition that contains an introductory paragraph, a body, and a conclusion.
- Decode 3,000-word reading passages, identify main ideas and supporting details, make inferences, and summarize short passages.

## Entry Standards

Entry Standards

## Course Limitations

Cross Listed or Equivalent Course

## Specifications

Methods of Instruction

Methods of Instruction

Collaborative Learning

Methods of Instruction

Multimedia

**Methods of Instruction**

Independent Study

**Out of Class Assignments**

N/A

**Methods of Evaluation****Rationale**

Exam/Quiz/Test

Unit exams and quizzes

Other

Completion of individualized contract

**Textbook Rationale**

OER resources updated. No new common core textbook.

**Textbooks**

Author	Title	Publisher	Date	ISBN
Craig, P.J., Berwald, Juli	Life Science	Glencoe/McGraw-Hill	2011	978-0078880025

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

CK-12 Life Science for Middle School FlexBook

**Author**

CK-12

**Citation**CK-12. (2019, March 1). CK-12 Life Science for Middle School. CK-12. <https://www.ck12.org/teacher/>**Online Resource(s)**

No value

**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

**Materials Fee**

No value

**Learning Outcomes and Objectives****Course Objectives**

Identify the structure and function of cells and cell parts.

Describe the life cycle of cells.

Explain how traits are inherited.

Describe the theories of evolution and the evidence supporting them.

Identify the impact bacteria have on the environment and on human beings.

Compare and contrast the categories of protists and fungi.

Compare and contrast seed and seedless plants.

## SLOs

**Explain cell and organism evolution and the processes required to reproduce.**

Expected Outcome Performance: 70.0

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

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*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

**Analyze plant processes and plant reproduction relating to ecosystem development.**

Expected Outcome Performance: 70.0

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

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*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

## 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

#### Overview of Living Things (6 hours)

- Distinguish between living and nonliving things
- Needs of living things
- Spontaneous generation and biogenesis

#### Classification of Living Things Cells (8 hours)

- Structure and function of organelles
- Cell theory
- Viruses

#### Cell Processes (8 hours)

- Organic versus inorganic compounds
- Osmosis and passive/active transport
- Photosynthesis, respiration, and fermentation

#### Cell Reproduction (8 hours)

- Cell division and mitosis
- Sexual reproduction and meiosis

#### DNA Heredity (7 hours)

- History of the study of genetics
- Genetics since Mendel
- Advances in genetics

#### Theory of Evolution (7 hours)

- Concepts involved in evolutionary theory
- Evidence of evolution
- Evolution of primates

#### Bacteria (9 hours)

- Characteristics of bacteria
- Impact of bacteria on humans and the environment

#### Protists and Fungi (9 hours)

- Characteristics and categories of protists

#### Characteristics and Categories of Fungi Plants (10 hours)

- Plant characteristics
- Vascular and nonvascular plants
- Seedless plants
- Seed plants structure and function of roots, stems, and leaves gymnosperms and angiosperms monocots and dicots

#### Plant Reproduction (10 hours)

- Stages in plant life cycle
- Seedless reproduction
- Seed reproduction

#### Plant Processes (10 hours)

- **Photosynthesis and respiration**
- Tropism
- Plant hormones

#### Ecology: Ecosystems (8 hours)

- Community evolution and climax communities
- Biomes and organisms' adaptations
- Aquatic ecosystems

**Total Hours: 100**

## Additional Information

Is this course proposed for GCC Major or General Education Graduation requirement? If yes, indicate which requirement in the two areas provided below.

No

#### **GCC Major Requirements**

No Value

#### **GCC General Education Graduation Requirements**

No Value

#### **Repeatability**

Repeatable

#### **Justification (if repeatable was chosen above)**

Non-credit courses

### **Resources**

Did you contact your departmental library liaison?

No

If yes, who is your departmental library liason?

No Value

Did you contact the DEIA liaison?

No

Were there any DEIA changes made to this outline?

No

If yes, in what areas were these changes made:

No Value

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