ABSE31 : LIFE SCIENCE 1B

General Information

Author:	• Maria Czech
Course Code (CB01) :	ABSE31
Course Title (CB02) :	LIFE SCIENCE 1B
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) :	CCC000340619
Curriculum Committee Approval Date:	05/22/2024
Board of Trustees Approval Date:	07/16/2024
Last Cyclical Review Date:	05/22/2024
Course Description and Course Note:	ABSE 31 is a high school level course designed to give an overview of life science from animals to the human body. It includes animal classification and characteristics, human body systems, and the interactions of factors within an ecosystem. This is the second 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:	• Noncredit
Author:	

Academic Senate Discipline

Primary Discipline:	• 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

Transferability & Gen. Ed. Options

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.

Funding Agency Category (CB23)

Not Applicable.

☐ Cooperative Work Experience Education Status (CB10)

☐ Variable Credit Course

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

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

Advisory

ABSE21 - ARITHMETIC 1A

Objectives

- Identify properties of addition and multiplication.
- Perform the indicated operations and reduce answers to lowest terms.
- Simplify expressions.
- Find the perimeter and area of the figures.
- Convert decimals to percent.
- Write each percent as a fraction or a mixed number in lowest terms.

AND

Advisory

ESL40 - ENGLISH AS A SECOND LANGUAGE LEVEL 4

Objectives

- 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

Demonstrate mastery of grammatical structures studied at a level sufficient to pass unit tests and the divisional grammar mastery test for ESL level 4 or equivalent.

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.

Course Limitations

Cross Listed or Equivalent Course

Specifications

Methods of Instruction

Methods of Instruction	Independent Study
Methods of Instruction	Multimedia
Methods of Instruction	Tutorial

Out of Class Assignments

N/A

Methods of Evaluation	Rationale
Other	Completion of individualized contract
Exam/Quiz/Test	Unit exams

Textbook Rationale

The principles of Life Science have not changed over many years, so material is still valid, and publication date is irrelevant.
New OER material.

Textbooks

Author	Title	Publisher	Date	ISBN
Anderson, Michelle, et al.	Life iScience. New York:	Glencoe/McGraw-Hill,	2011	978-0078880025

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

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

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

Materials Fee

No value

Learning Outcomes and Objectives

Course Objectives

Identify the characteristics common to most classes of animals.

Identify the adaptations most animal classes have made for survival.

Compare and contrast innate and learned behavior.

Describe the structure and function of each of the systems of the human body.

Analyze a food web and describe the impact on the environment given any changes.

Describe a community within an ecosystem and predict its possible evolution.

SLOs

Describe the human body at the level of molecules, cells, and systems, and apply this understanding to human function.

Expected Outcome Performance: 70.0

Determine the behavior and body structure that have specific growth and survival functions of animals. Expected Outcome Performance: 70.0

Evaluate living and nonliving things that affect animals in their environment. Expected Outcome Performance: 70.0

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

Introduction to Animals (6 hours)
- Characteristics common to most animals
- Sponges and cnidarians
- Flatworms and roundworm

Mollusks, Worms, Arthropods, and Echinoderms (7 hours)
- Characteristics of mollusks
    - gastropods
    - bivalves
    - cephalopods
- Characteristics of segmented worms
- Characteristics, structure, and metamorphosis of arthropods
- Characteristics and environmental importance of echinoderms

Fish, Amphibians, and Reptiles (7 hours)
- General characteristics of chordates
- Characteristics of the three classes of fish
- Adaptations and life cycles of amphibians
- Characteristics, reproduction, and adaptation of reptiles

Birds and Mammals (7 hours)
- Characteristics and adaptations of birds
- Reproduction and development of birds
- Characteristics and adaptations of mammals
- Reproduction of mammals
    - monotremes
    - marsupials
    - placentals

Animal Behavior (6 hours)
- Innate and learned behavior
- Reflexes, instincts, and imprinting
- Behavioral adaptations
    - courtship
    - behavior
    - social behavior
    - cyclic behavior

Human Body: Structure and Movement (6 hours)
- Skeletal system function and parts
- Muscular system function and physiology
- Skin construction and function

Human Body: Nutrients and Digestion (6 hours)
- Nutrients, diet, and health
- Mechanical and chemical digestion
- Organs of the digestive system
- Process of digestion

Human Body: Circulation (6 hours)
- Pulmonary and systemic circulatory system parts and processes
- Parts and functions of the blood
- Structure and function of the lymphatic system

Human Body: Respiration and Excretion (6 hours)
- Structure and function of the respiratory system
- Structure and function of the excretory systems
- Structure and function of the urinary system

Human Body: Control and Coordination (6 hours)
- Structure and function of the nervous system
    - Neurons and nerve impulses
    - Central and peripheral nervous systems

- Sense organs, sensory receptors, and stimuli

Human Body: Regulation and Reproduction (6 hours)
- Glands, hormones, and the function of the endocrine system
- Reproductive system
    - male
    - female
    - menstrual cycle
- Human life stages
    - fertilization of an egg
    - development of an embryo and fetus
    - developmental stages of infancy, childhood, adolescence, and adulthood

Human Body: Immunity and Disease (6 hours)
- Antigens and antibodies
- Infectious diseases
    - viruses and bacteria
    - sexually transmitted diseases
- Noninfectious diseases

Ecology: Interactions of Life (9 hours)
- Ecology
- Populations
- Organisms

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