

Syllabus Fall 2022

Aug. 15 – Dec. 9

I. Course Information

Course Title: Integrated Principles Biology I
Course No. and Section: BSC2010 Sec 01
Instructor Name: Prof. E. Amesbury
Credit Hours: 3
Course Location: 2-121

Class Meeting Dates: Mon./Wed. 11-12:15
Office Location: 2-218E
Office Hours: Mondays 9-11:00a
Preferred Contact: Canvas Messaging
Email: amesbure@cf.edu

Extended Emergency Closure

“For emergency campus closings (natural disasters, etc.) call 352-291-4499 or 800-831-9244 or check our [website](#) (CF.edu).”

II. Course Description

You will be learning the basic principles of general biology as they relate to the cellular, organismic and population levels of organization. These principles include cell ultrastructure and function, energy transfer, reproduction, and genetics. General topics to be considered include the chemical, molecular and cellular basis of life, photosynthesis, cell metabolism, and cell division. This course will establish a scientific vocabulary that is used by scientists and health care professionals

Recommended Pre/Corequisites: Chemistry I

Required Text Title: Openstax “Biology”

Website:

<https://openstax.org/details/books/biology-2e> [Downloadable Textbook PDF \(Free\)](#)

Edition: 2nd Edition

ISBN No.: Free to download

III. General Information

Assignments/Grades

Your course grade will be calculated from homework, assignments and exams. The lowest Quiz score will be dropped (i.e. not count towards the final grade). All exams will count towards the final course grade (i.e. no exam grades will be dropped). **All assignments must be submitted by the posted deadline date and time (see detailed explanation below for make-ups).** Once you begin your online Quizzes or Exams, the allotted time will begin and you will not be permitted to “save” your progress to resume later. This means that you should not begin until you are prepared to complete them in their entirety.

In our DNA

Assignment	Points Earned	Weight
4 Exams (See Class Schedule for Approximate Dates)	100-150 each test	30%
Quizzes	50-100 each	35%
Homework	25-100 each	35%

Grade	Percentage
A	100-90.00
B+	89.99-87.00
B	86.99-80.00
C+	79.99-77.00
C	76.99-70.00
D	69.99-60.00
F	59.99-0

Although curves may be calculated on individual quizzes or exams, NO CURVES will be calculated for your final score.

Course Delivery

1. This is an in-person course. Lectures will also be presented through Zoom, and will be recorded and available on Canvas. Students have the option to:

- A. Attend lectures live
- B. Attend lectures through Zoom
- C. View the recorded lectures uploaded in the Home page

The course materials and assignments will be through Canvas (<https://cf.instructure.com>), and it is the student's responsibility to ensure sufficient internet access to obtain the course materials and complete course assignments.

- 2. Course work CANNOT be made up. Lack of internet access and/or individual computer problems WILL NOT be considered valid excuses. Recorded videos and supplemental study resources will be delivered through Canvas.
- 3. Students are expected to check Canvas at least once each weekday (Monday through Friday) to ensure that they do not miss any announcements or emails from the instructor.
- 4. Grades will be viewable in Canvas at all times. It is the student's responsibility to know the college drop date and drop by this date if necessary. A grade of "W" (withdrawal) will be recorded only if the student drops the course by the college drop date.

NOTE: It is recommended that students do not travel or take vacations during this course. However, if a student chooses to do this, they must ensure that they have reliable wifi and computer access. They will be expected to complete all assignments as scheduled.

Make-Up Policy

1. **Assignments are due by the date and time deadline.** Failure to follow the prescribed procedures will result in a grade of zero for that assignment.

2. Some extenuating circumstances, under the professor's discretion, may be considered to change the deadline. A written letter of explanation, requesting that the absence from the assignment be excused, and deadline extended, must be presented before the assignment or within 24 hours afterwards.

These are the extenuating circumstances that will be considered:

- A. The student is hospitalized and/or has been advised by a licensed medical practitioner or hospital not to complete the assignment.
- B. There is a documented death of an immediate family member
- C. The assignment due date falls on a religious holiday (you will then be advised to submit the assignment early)

3. An ongoing physical illness that may be used to excuse a student will have to be provided with documentation AT THE BEGINNING OF THE SEMESTER

Attendance Policy

- 1. Live attendance NOT mandatory. Lessons will be recorded and uploaded in Modules to view or review at your convenience.
- 2. A student's overall success, however, is based upon following the course schedule for learning the assigned readings and practicing the recommended exercises. Students are strongly encouraged to develop self-discipline to complete all text readings and online exercises, including the practice examinations.

Academic Integrity

Academic dishonesty includes the following:

- 1. Cheating - copying another's work for academic gain.
- 2. Plagiarism - representing another's work as your own.
- 3. Bribery - offering, giving, soliciting, or receiving goods or services of value for academic gain.
- 4. Misrepresentation - altering facts (e.g., signing an absent classmate's name to an attendance sheet).
- 5. Conspiracy - planning with others to commit academic dishonesty.
- 6. Fabrication - making up information to avoid punishment or other difficulty.

If any student participates in any form of academic dishonesty will automatically result in a 0 (F)

THERE ARE NO MAKE-UP HOMEWORK, QUIZZES, OR EXAMS

<u>Week of:</u>	<u>Unit 1. The Chemistry of Life</u>
Aug. 15	Review Syllabus Chapter 1: These portions only- Hierarchy of Life and Scientific Method Chapter 2: The Chemical Foundation of Life
Aug. 22	Chapter 3: Biological Macromolecules
Aug. 29	Chapter 3: Biological Macromolecules, continued
Sept. 7 (No Class Sept. 5)	<u>Unit 2. The Cell</u> Chapter 4: Cell Structure
Sept. 12	Chapter 5: Structure and Function of Plasma Membrane
Sept. 19	Test 1 Chapters 1-5 Chapter 6: Metabolism
Sept. 26	Chapter 7: Cellular Respiration
Oct. 3	Chapter 8: Photosynthesis
Oct. 10	Chapter 9: Cell Communication
Oct. 17	Test 2 Chapters 6-9
Oct. 24	Chapter 10: Cell Reproduction (Mitosis) style="text-align: center;"> <u>Unit 3. Genetics</u> Chapter 11: Meiosis and Sexual Reproduction
Oct. 31	Chapter 12: Mendel's Experiments and Heredity
Nov. 7- ONLINE ONLY	Chapter 13: Modern Understandings of Inheritance Chapter 14: DNA Structure and Function
Nov. 14	Test 3 Chapters 10-13 Chapter 14: DNA Structure and Function, cont'd
Nov. 21 (Nov. 23-27 Thanksgiving Holiday)	Chapter 15: Genes and Proteins
Nov. 28	Chapter 15: Genes and Proteins, Cont'd Chapter 16: Gene Expression

Monday, Dec. 5 11:00a

Test 4 Chapters 14-16

STATEMENT: Due to unforeseen happenings, it may be necessary for the course assignment schedule to be altered. The instructor will always strive to be fair about any changes.

Student Learning Outcomes/Course Objectives .

Learning Outcomes & How Measured

Critical Reasoning: The student will reflect, analyze, synthesize, and apply critical thinking.

1. Accurately interpret evidence, statements, graphics, questions, etc. (quiz, test)
2. Draw valid conclusions. (quiz, test)
3. Justify and explain assumptions and reasons. (discussion, quiz, test)

Communication: The student will read, write, speak, and listen effectively.

1. Read materials and effectively understand essential facts and concepts. (quiz, test, homework)
2. Listen actively to comprehend main ideas and essential details. (quiz, test, homework)
3. Express clear, well-organized ideas through oral communication. (discussion)

Quantitative and Analytical Reasoning: The student will understand and apply mathematical and scientific principles and methods.

1. Interpret and communicate understanding of visual representations of data. (quiz, test)
2. Demonstrate mathematical number sense and unit sense. (quiz, test, homework)

Computer & Information Skills: The student will be able to evaluate the importance of technology and its applications.

1. Organize data or information using appropriate electronic media. (homework)
2. Access, research, and retrieve information using the Internet. (homework)

The College of Central Florida is committed to helping you succeed and achieve your academic, personal and career goals. There are a wide range of resources and support services available to you. When students are connected early to resources and support systems on campus they are more likely to stay in classes, perform better in those classes, and complete their path more quickly. One example is through an Early Support Program, where you may receive an email indicating your professor or advisor is reaching out directly to help connect you to support services. This may include connecting you to tutoring, financial support, psychological support services, and disability services just to name a few. Be aware, you can also reach out to these services on your own as well. Additionally, we offer disability services, a testing center, and many other resources which are all available to you. [Please refer to the College Resources, Dates, and Policies document in your Canvas course to learn more about these supports.](#)

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