

Concepts of Biology Syllabus

BSC1005, Summer 2019, June 24 - July 26

Course & Faculty Information

Lecturer: TBA

E-mail: TBA

Time: Monday through Friday (1.8 contact hours each day)

Contact hour: 45 hours

Credit: 3

Office hours: By Appointment

Course Description

Biological Science is all around us, and affects every aspect of our lives and every facet of life on Planet Earth. This is a vast and highly diverse subject, and thus will require an overview approach in a short course such as this one. We will cover the most important areas in some detail. The goal of this course is to furnish students with the basic foundation, information, and analytical tools necessary to grasp the fundamental concepts central to the study of biology.

This course is a study of the characteristics of living organisms. Unifying concepts such as metabolism, genetics, evolution, and cellular organization will be investigated. Designed for non-science majors, this course does not fulfill the credit requirements for biology majors.

Upon successful completion of this course, the student should be able to:

1. understand the basic physical, chemical, and biological principles that govern living organisms on this planet;
2. recognize the characteristics of living organisms and the similarities that unite all of the diverse forms of life;
3. understand the basic principles of genetics, inheritance, and cellular reproduction;
4. intelligently evaluate the great mass of biological fact, theory, and fiction with which one comes in daily contact.

Textbook Information

BSC 1005 Concepts of Biology Seminole State College Florida Package, Pearson Learning Solutions

Additional Learning Supplement:

Seminole State College Biology Department Website www.seminolestate.edu/biology (click on resources)

Grading Policy

The final grade will be determined as follows:

1. Lecture Exams	400 points
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A total of four “unit” exams and one comprehensive final exam will be given. Each exam will be worth 100 points. The lowest of the five exam grades will be dropped.

Exams may be comprised of a combination of question types such as matching, multiple choice, fill-in-the-blank, and short answer, and will emphasize lecture material.

2. Lecture Quizzes	100 points
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3. Homework Assignments	150 points
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Grading Scale:

A = 90-100%

B = 80-89%

C = 70-79%

D = 60-69%

F = Below 60%

Attendance and Withdrawal from Course

According to college policy, if you miss more than 4.5 hours of scheduled class time, you are subject to an instructor-initiated withdrawal. Because exams are almost exclusively on material covered in class, regular attendance is required in order to be successful in this course.

Attendance will be taken at each class meeting and will be reported to the Registrar for purposes of validating financial aid. Student-initiated or instructor-initiated withdrawals must be made on or before the published deadline which is the first Friday after the course begins. Absolutely no withdrawals can be given after this date. Students who just stop attending class will receive an A, B, C, D, or F, depending on the total points earned.

General Comments

This is a college-level science course and, as such, will require academic self-discipline and good study skills on your part. Regular attendance, good note-taking, and a willingness to "keep up" and seek help when you need it will contribute to your success in this class.

Course Outline:

Please note that this outline is meant to give an overview of the major concepts this course. Changes may occur in this calendar as needed to aid in the student's development.

WEEK ONE:

- Course Introduction
- Biology: Exploring Life, Chapter 1
- The Chemical Basis of Life, Chapter 2
- EXAM 1 (Chapters 1& 2)

WEEK TWO:

- The Molecules of Cells, Chapter 3
- A Tour of the Cell, Chapter 4
- The Working Cell, Chapter 5 part 1 (pages 88-95)
- EXAM 2 (Chapters 3, 4 & 5 [part 1])

WEEK THREE:

- The Working Cell, Chapter 5 part 2 (pages 96-101)
- How Cells Harvest Chemical Energy, Chapter 6
- Photosynthesis: Using Light to Make Food, Chapter 7

WEEK FOUR:

- EXAM 3 (Chapters 5 [part 2], 6 & 7)
- The Cellular Basis of Reproduction and Inheritance, Chapter 8
- Patterns of Inheritance, Chapter 9

WEEK FIVE:

- Molecular Biology of the Gene, Chapter 10
- EXAM 4 (Chapters 9 & 10)
- COMPREHENSIVE FINAL EXAM (Chapters 1 – 10)

Academic Integrity

As members of the Seminole State College of Florida community, students are expected to be honest in all of their academic coursework and activities.

Academic dishonesty, such as cheating of any kind on examinations, course assignments or projects, plagiarism, misrepresentation and the unauthorized possession of examinations or other course-related materials, is prohibited.

Plagiarism is unacceptable to the college community. Academic work that is submitted by students is assumed to be the result of their own thought, research or self-expression. When students borrow ideas, wording or organization from another source, they are expected to acknowledge that fact in an appropriate manner. Plagiarism is the deliberate use and appropriation of another's work without identifying the source and trying to pass-off such work as the student's own. Any student who fails to give full credit for ideas or materials taken from another has plagiarized.

Students who share their work for the purpose of cheating on class assignments or tests are subject to the same penalties as the student who commits the act of cheating.

When cheating or plagiarism has occurred, instructors may take academic action that ranges from denial of credit for the assignment or a grade of "F" on a specific assignment, examination or project, to the assignment of a grade of "F" for the course. Students may also be subject to further sanctions imposed by the judicial officer, such as disciplinary probation, suspension or dismissal from the College.

CONCEPTS OF BIOLOGY (BSC 1005) , 2018

Monday	Tuesday	Wednesday	Thursday	Friday
June 24 Introduction to Class Chapter 1	June 25 Chapter 1	June 26 Chapter 1 Quiz Chapter 2	June 27 Chapter 2	June 28 Exam 1 (Chapters 1-2)
July 1 Chapter 3	July 2 Chapter 3	July 3 Chapter 3 Quiz Chapter 4	July 4 Chapter 4 Chapter 5 (pages 88-95)	July 5 Exam 2 (Chapters 3-5)
July 8 Chapter 5 (pages 96-101)	July 9 Chapter 5 Quiz Chapter 6	July 10 Chapter 6	July 11 Chapter 6 Quiz Chapter 7	July 12 Chapter 7
July 15 Exam 3 (Chapters 5-7)	July 16 Chapter 8	July 17 Chapter 8	July 18 Chapter 8	July 19 Chapter 8 Quiz Chapter 9
July 22 Chapter 9	July 23 Chapter 9 Quiz Chapter 10	July 24 Chapter 10	July 25 Exam 4 (Chapters 8-10)	July 26 Final Exam (Chapters 1-10)

Class requirements	<p style="text-align: center;">Homework</p> <p>Pre-class homework assignments will be given to prepare for the daily lectures.</p> <p>Post-class homework assignments will be due the following day after the completion of the chapter in class.</p>	<p style="text-align: center;">Quizzes</p> <p>Quizzes will be given on each chapter except those the day before an exam.</p>	<p style="text-align: center;">Exams</p> <p>Exams will be given during class time and will consist of multiple choice, fill in the blank, matching and labeling questions.</p>