

## SEMESTER INFORMATION

Biology for Science Majors 1. BSC 2010

CRN: 10260

3 credit hours/ 3 contact hours

Prerequisite: Completion of CHM 1040 (Fundamentals of Chemistry) is required and understanding of fundamental chemistry concepts will be expected.

Corequisite: Biology for Science Majors 1 Laboratory, BSC 2010L is required.

Spring 2023

## CONTACT INFORMATION

Instructor: Gregory Robinson, Master of Biological Sciences

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## APPROVED COURSE MATERIALS AND RESOURCES

Textbook: Campbell Biology in Focus, 3<sup>rd</sup> Edition, Urry, Cain, Wasserman & Minorsky, 2020, Pearson Publishing

ISBN-13: 9780135686065 (Looseleaf with Mastering) or 9780134875040 (Hardbound with Mastering)

## CURRICULUM

**Course description:** BSC 2010 is the first of two courses designed to provide depth in the biological sciences for students majoring in the life sciences. This course covers the scientific method, the chemical and cellular basis of life, bioenergetics, cellular reproduction, and genetics at the molecular and organism levels.

**Instructional delivery:** lecture, discussions, group projects and individual writing.

**Broad goals of the course:** This course is designed to provide students with the basic foundation of the biological sciences: the fundamental similarities of all living things; the organization of life at the cellular level; the metabolic and energy transactions involved in life's processes; the reproduction of life; and the transmission of traits from one generation to the next.

### Approved Student Learning Outcomes:

- Demonstrate understanding of the composition and components of the basic cell, including the functions of cellular organelles.
- Identify the different stages of the eukaryotic cell cycle and describe the outcomes of both mitosis and meiosis.

- Apply the premises of transcription and translation to determine the results of gene expression in the form of protein production.
- Summarize the flow of energy into and out of the cell through the processes of photosynthesis and cellular respiration.

## **STUDENT EXPECTATIONS OF THE INSTRUCTOR**

Your instructor will be available for consultation on course-related matters during ten (10) student office hours each week, which will be posted on Canvas and outside the instructor's office.

Emails/voicemails requiring a response will be addressed within 48 business hours of receipt.

Canvas access is required for all course content, including lecture presentations, videos, practice quizzes, and submission of some assignments. Students having difficulty accessing Canvas should contact Information Technology Services as soon as possible.

## **EXPECTATIONS OF THE STUDENT**

**Academic integrity policy:** Honest participation in academic endeavors fosters an environment in which optimal learning can take place and is consistent with the college's mission. Academic misconduct, including cheating or plagiarism, is destructive to the spirit of an educational environment and therefore will not be tolerated. "Cheating" includes but is not limited to use of any unauthorized assistance in completing course work. "Plagiarism" includes, but is not limited to, the use by paraphrase or direct quotation of the published or unpublished work of another person without full and clear acknowledgment. Sanctions for incidences of academic misconduct, depending on the severity of the incidence and/or its repetition, may range from receiving an F grade (or zero) for the test, assignment, or activity, to failure of the course, to suspension or dismissal from the program or the college.

**Student Accessibility Resources:** Gulf Coast State College supports an inclusive learning environment for all students. If there are aspects of the instruction or design of this course that hinder your full participation, reasonable accommodations can be arranged. Prior to receiving accommodations, you must register with Student Accessibility Resources. Appropriate academic accommodations will be determined based on the documented needs of the student. For information regarding the registration process, email [sar@gulfcoast.edu](mailto:sar@gulfcoast.edu) or call 850-747-3243.

**HB233 Statement:** In accordance with federal and state privacy laws, students may record class lectures for their own personal educational use, in connection with a complaint to the college, or as evidence in internal or external legal proceedings. Students may not publish or upload the recordings or any components thereof without the knowledge and written permission of the faculty member. Failure to obtain permission to publish could lead to the students' having to pay damages, attorney fees, and court costs. For more information about what can be recorded, please see the guidelines in the current Student Handbook on the Gulf Coast State College website.

**Attendance:** Regular class attendance and participation are significant factors that help to promote success in college. Students are expected to attend all class meetings of all courses for which they are registered. Regular and punctual attendance is required and is fundamental to success in this course. Information presented in class is your responsibility whether you are present or not.

**Withdrawal Policy:** Students wishing to withdraw from a course must complete a withdrawal form and submit the form to the Office of Enrollment Services before the scheduled withdrawal date as published on the college calendar. Student withdrawals initiated prior to the scheduled withdrawal deadline will be recorded as a grade of “W”. Two withdrawals are permitted per credit course. After that, a grade will be assigned. Please be concerned about withdrawals. When admitting students into certain programs, universities may calculate withdrawals as grades. It is your responsibility to verify the effects of enrollment and/or withdrawal upon your financial assistance (financial aid, scholarships, grants, etc.).

#### **MEASURE OF STUDENT PERFORMANCE**

**Method of Assessment:** There are five unit tests during the semester (70%). There will be a group presentation over a biotechnology topic (10%). There is also a comprehensive final (20%). There will be no makeup tests allowed. Your lowest unit test grade can be dropped, or the grade on the final can be used to replace your lowest test grade at the end of the semester. If you miss a test, then the grade earned on the final will replace that zero. If you miss a second test, then you will receive a zero that cannot be made up. There will be no grading “on the curve” or scaling of grades. There is also no extra credit work that can be done to improve a poor course grade. I expect you to spend your time learning the material covered in class, and this material is what will be on the tests.

**GCSC Grading Scale:** A=89.5-100; B=79.5-89.4; C=69.5-79.4; D=59.5-69.4; F=0-59.4.