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| Faculty Name: | |
| Course Information: | BIOLOGY II: BIO 171 |
| Course Section, Term and Year: | |
| Course Meeting Times & Location: | |

Contact:

| | |
|--|--|
| Phone Number: | |
| Office Location: | |
| Email address: | |
| Enter days/time you are available to meet with students. | |

Netiquette

Respect the diversity of opinions among the instructor and classmates and engage with them in a courteous, respectful, and professional manner. All posts and classroom communication must be conducted in accordance with the student code of conduct. Think before you push the Send button. Did you say just what you meant? How will the person on the other end interpret the words?

Communication:

Faculty Communication with Students:

Discuss how faculty will contact students.

Student Communication with Faculty:

Discuss how students will contact faculty when they have questions or concerns.

Course Description:

BIO 171 General Biology II: Molecular and Cell Biology

3-3-4

A course in general biological principles, relating cell structure to function. Topics discussed include biochemistry, energetics, the molecular basis of cell metabolism, principles of heredity and the genetic control of cell activity, cell division, and the homeostatic regulation of the cell environment for both eukaryotic and prokaryotic cells. Physiological processes at the organismic level are analyzed and correlated with the simpler manifestations at the cell level. The course emphasizes modern research, the nature and philosophy of science, and the art of experimentation, as carried on concurrently in the laboratory portion of the course. *General Education: N.*

Course Learning Outcomes:

Students will:

- Demonstrate an understanding of the pieces and application of the generally accepted Scientific Method.
- Demonstrate an understanding of the basics of chemistry as it works in living systems.
- Demonstrate an understanding of the basics of cellular structures and functions.
- Be able to use basic lab equipment, including measuring devices.

SUNY General Education Learning Outcomes: – Natural Science

Students will demonstrate the following:

- Understanding of the methods scientists use to explore natural phenomena, including observation, hypothesis development, measurement and data collection, experimentation, evaluation of evidence, and employment of mathematical analysis; and
- Application of scientific data, concepts, and models in one of the natural sciences.

Program Learning Outcomes: – Health Science (AS) (Outcomes relative to course are shaded.)

Students will:

- I. Demonstrate communication, problem solving and critical thinking skills pertinent in the healthcare sector.
- II. Demonstrate communication, problem solving and critical thinking skills pertinent in the healthcare sector.
- III. Understand and utilize scientific method.
- IV. Promote health and wellness among members of the college and/or local communities through service learning.

Course Resources:

| | |
|-------------------|---|
| Textbook: | Enter title, edition, author, ISBN for required text. |
| Materials: | Enter all additional required materials and tools needed to complete course here. |
| Access: | List access codes needed for websites or other software. . |

Course Policies:

Click here to describe how students will participate in your class. Include policies regarding missed exams, makeup exams, extra credit assignments, late assignments, missed assignments, etc.

Course Delivery:

Course Content:

Lecture Format:

Student Expectations specific to this course:

Course Outline and Schedule

Grading Method:

Click here to enter a clear explanation of how students will be evaluated, including a description of course assessments and a statement of the assessment process and measurements. Include weight/percentages for quizzes, exams, papers, projects, homework, attendance, participation, etc.

Grading Scale:

| | |
|-----------|-----------------------------------|
| A | Click here to enter point system. |
| A- | Click here to enter point system. |
| B+ | Click here to enter point system. |
| B | Click here to enter point system. |
| B- | Click here to enter point system. |
| C+ | Click here to enter point system. |
| C | Click here to enter point system. |
| D | Click here to enter point system. |
| F | Click here to enter point system. |