

Syllabus:
General Biology II
The School of Arts & Sciences
St. Thomas Aquinas College

COURSE DESCRIPTION:

This course is the complement of Bio 171 but the two courses can be taken in any order. Bio 173 stresses animal life and will cover classification, metabolism, structure and behavior. The general considerations of genetics and evolution will be the cornerstones for Bio 173. Bio 174 is a corequisite for Bio 173 and Bio majors must attain a "C" or better in Bio 171,172,173 and 174 to take any upper level bio course.

EVALUATION:

There will be 4 lecture exams.

TEXT:

Life, The Science of Biology by Sadava, Hillis , Heller, and Berenbaum 9th ed. 2011_ or later

COURSE OBJECTIVES:

Students will finish with a thorough knowledge of the structure and function of animals and an understanding of natural selection and genetics.

COURSE FORMAT:

Lectures on topics (see attached sheet) will be given. There are 2 lectures per week and a mandatory one hour review. The corresponding chapters in the text are given.

COMMENTS:

Attendance is mandatory and absence for more than 15% of the course hours will result in a lower grade.

ACADEMIC INTEGRITY

Academic integrity, a commitment to honesty, fairness, respect, and responsibility, is the foundation of the learning process. All members of the St. Thomas Aquinas College community are held to the highest standards of academic honesty. While we recognize the participatory nature of education, we take academic integrity very seriously, and the College policy on academic dishonesty details consequences that can include dismissal from the College. That policy can be found in both the Student Handbook and the College Catalog.

As a student in this class, you must demonstrate your commitment to academic integrity by submitting work which originates in your own imagination, analytical faculties, or your own knowledge, which you have done yourself, and which represents your very best efforts. When appropriate, your work should be supplemented and supported by other sources; however, you must always ensure that these sources are properly cited using the recommended documentation system.

Students needing accommodations for a documented disability should notify the instructor at the beginning of the semester.

TOPICS

TEXT CHAPTER

Tissues and life processes in animals

Energy production

6 and 7

Genetics

Meiosis

9

Mendelian genetics

10

Gene structure and expression

11 and 12

Population genetics

Animal kingdom

Invertebrates

31 and 3

Chordates

33

Evolution

21 and 22

Animal behavior

53

Animal physiology

Digestion

50

Heart and circulation

49

Respiration

48

Nervous system

44

Homeostasis

40-41

COLLEGE POLICY ON ELECTRONIC DEVICES IN THE CLASSROOM

Students are not to use any electronic device at any time without the expressed consent of the professor. This policy includes cell phones, laptop computers, or any other device the use of which constitutes a distraction to the professor or to the other students in the class as determined by the professor. Students with documented disabilities that require the use of a laptop in class may use them after informing their professor.

When a professor designates a time during which laptop computers may be used, they are only to be used at the discretion of the faculty member and in accordance with the mission of the college; visiting sites which the professor deems to be inappropriate to the needs of the class is forbidden..

Professors have the latitude to develop specific and reasonable policies to deal with violations of these general policies as they see fit. For more extreme cases of classroom disruption, see the College's Disruptive Student Policy