INTRODUCTION TO BIOLOGY
Doane College

COURSE OUTLINE AND SYLLABUS

COURSE NUMBER: BIO 101
Instructor: Charles Carpenter B.S., M.S.
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Materials Required:
“Biology for Nonbiologists” by Frank R. Spellman
Publisher: Government Institutes, an imprint of The Scarecrow Press, Inc.

Other supplemental materials will be supplied by the instructor as required.

Course Description:
This is an introductory course which provides an overview of some of the important aspects of biology in an easily understood way even if a person has had no formal biology instruction. Biology’s interaction with the environment and possible consequences are touched upon in a user friendly format. Sounds routine, but a futuristic approach will be used with consideration for topics that are often overlooked. Finally, vocabulary is clearly defined and interwoven into a matrix of concepts, namely cells, cell division, laws, reactions, photosynthesis, genetics, organisms, biological diversity and human biology, which is always important to us.

Course Objectives:
The student will be able to:

1. Describe what biology is, the philosophy of biology as a science and why we study it.
2. Define life as we know it.
3. Identify some of the major theories of biology.
4. Describe some of the steps used in biological investigations.
5. Understand that the way living organisms are made facilitates the way they work.
6. Understand within living systems, matter cycles and energy flows.
7. Illustrate, using Mendel’s ideas, how hereditary information can be passed on.
8. Describe the levels of organization.
9. Realize how the immune system defends the body against infection.
10. Describe how life choices impact our body’s ability to function.
**Class Attendance:**
Attending classes is imperative, especially since we meet very few times. Activities will be intertwined with lecture, discussion, and summary sheets. A portion of your grade will be based on your attendance. If you have to miss a class, let me know and also be prepared to complete all work, gather notes and complete any activities that you may have missed.

**Course Requirements:**
1. **Class Participation/Attendance (worth 20% of the course grade).** This is determined by the number of times you are present in class and by your contributions during lab work and discussion.

2. **Projects/Papers (worth 30% of the course grade).** This work will be divided into daily work, and a power point dealing with some aspect of the human body to be agreed upon jointly by student and instructor.

3. **Team Tests (worth 30% of the course grade).** These tests will center around one of the major topics discussed in the chapter and will be essay in nature. You will work on these tests with a partner or partner(s). **If you are absent you will have to do this test on your own.**

4. **Individual Test (worth 20% of the course grade).** This test will be administered at the end of the course and will deal with systems of the human body.