WAYLAND BAPTIST UNIVERSITY

WBUonline CAMPUS

SCHOOL OF MATHEMATICS & SCIENCES

MISSION:

Wayland Baptist University exists to educate students in an academically challenging, learning-focused and distinctively Christian environment for professional success and service to God and humankind.

COURSE TITLE AND NUMBER:

BIOL 1300-*VC01:* Life Science (non-lab)

TERM: Summer 2018

NAME OF INSTRUCTOR: Dr. Herb Grover

OFFICE PHONE NUMBER AND WBU EMAIL ADDRESS:

 806-292-2082 (cell phone; limited reception; contact by email preferred)

 Email: Herbert.grover@wayland.wbu.edu

OFFICE HOURS, BUILDING AND LOCATION: On-line, as needed

CLASS MEETING TIME AND LOCATION: On-line

CATALOG DESCRIPTION:

A general laboratory-based course for non-science majors or minors; employs the scientific method to discover how living things are: organized, acquire materials and energy, respond to their environment, reproduce & develop, and adapt to their environment; attention given to bio-ethical issues in contemporary biology. Lecture three hours; No laboratory

PREREQUISITE:

None

**REQUIRED TEXTBOOK AND/OR RESOURCE MATERIALS**:

**Text:** *Concepts of Biology*. Openstax College. ISBN 978-1-938168-11-6

<https://openstaxcollege.org/textbooks/concepts-of-biology>

NOTE – this textbook is free. It can be downloaded in pdf or html format, purchased in printed form, or viewed on-line.

COURSE OUTCOME COMPETENCIES:

Students will be able to:

1. Explain how living organisms metabolize and self-perpetuate.

2. Explain cell structure and function.

3. Explain basic similarities and differences between plants and animals in terms of morphology and physiology.

4. Explain the ecosystem concept in terms of homeostasis and the effect of perturbations on ecosystems.

5. Describe the basic classification of living organisms.

ATTENDANCE REQUIREMENTS:

In accordance with university policy, attendance in this course will be documented through a student’s active engagement in weekly assignments, quizzes, or similar course elements requiring deliverables or direct communication between the student and the instructor through the course Bb site. Instructions for completing these assignments will be posted by the instructor prior to or at the beginning of each week of the class. Failure to attend or participate in this class may result in administrative withdrawal from the course or grade reductions. Failure to meet posted deadlines will result in a grade of zero or point reductions for the assignments affected.

STATEMENT ON PLAGIARISM AND ACADEMIC DISHONESTY:

Wayland Baptist University observes a zero tolerance policy regarding academic dishonesty. Per university policy as described in the academic catalog, all cases of academic dishonesty will be reported and second offenses will result in suspension from the university.

DISABILITY STATEMENT:

Disability Statement – In compliance with the Americans with Disabilities Act of 1990 (ADA), it is the policy of Wayland Baptist University that no otherwise qualified person with a disability be excluded from participation in, be denied the benefits of, or be subject to discrimination under any educational program or activity in the university. The Coordinator of Counseling Services serves as the coordinator of students with a disability and should be contacted concerning accommodation requests at (806) 291-3765. Documentation of a disability must accompany any request for accommodations.

COURSE REQUIREMENTS AND GRADING CRITERIA:

Students will be required to access readings, videos, or podcasts posted on Bb, or through various internet sources. Assignments may require participation in various interactive tools including discussion boards, journals, on-line quizzes or exams, written assignments, and student-produced video or audio files. Access to a reliable and reasonably fast internet connection is essential to successful participation in this course.

COURSE EVALUATION:

Final course grades will be assigned on the basis of the proportion of points earned from the total points available across all assignment, quizzes, and exams. Point values of assignments, quizzes, or exams will be announced when the respective items are posted. Students should anticipate a minimum of 3 or 4 lecture exams, one of which will be proctored. Quizzes will be posted for each chapter of material. All chapter quizzes combined will account for the equivalent of one lecture exam. Some assignments may include options asking students to take pictures or videos and post them on blogs established within the course black board site. Cell-phone quality images will suffice for those assignments.

Lecture exams will account for 50% of the course grade; assignments for 40%; and class participation for 10%.

Course letter grades will be assigned in accordance with university policy based on the proportion of points earned as followes:

University Grading System:
 A = 90 - 100

 B = 80 - 89

 C = 70 - 79

 D = 60 - 69

 F = Below 60

 I = Incomplete +

 W = Withdrawal

A grade of incomplete is changed if the deficiency is made up by midterm of the next regular semester, otherwise, it becomes "F". This grade is given only if circumstances beyond the student's control prevented completion of work during the semester enrolled and attendance requirements have been met.

**Grading and Academic Standards:**

Students shall have protection through orderly procedures against prejudices or capricious academic evaluation. A student who believes that he or she has not been held to realistic academic standards, just evaluation procedures, or appropriate grading, may appeal the final grade given in the course by using the student grade appeal process described in the Academic Catalog. Appeals may not be made for advanced placement examinations or course bypass examinations. Appeals are limited to the final course grade, which may be upheld, raised, or lowered at any stage of the appeal process. Any recommendation to lower a course grade must be submitted through the Executive Vice President/Provost to the Faculty Assembly Grade Appeals Committee for review and approval. The Faculty Assembly Grade Appeals Committee may instruct that the course grade be upheld, raised, or lowered to a more proper evaluation.

TENTATIVE SCHEDULE (COURSE OUTLINE):

A. Introduction

 -Scientific Basis

-Biological Basis

B. Nature of Life

 -Metabolism

 -Perpetuation

C. Cells

D. Chemistry of Life

E. Photosynthesis

F. Respiration

G. Nutrition/Transport

-Plants

 -Animals

H. Control Systems

 -Plants

-Animals

I. Reproduction

 -Asexual

 -Sexual

 J. Development

-Plants

-Animals

 K. Genetics

 -Mendelian

 -Non-Mendelain

 L. Adaptation

-Gene Frequencies

-Natural Selection

M. Ecology

 -Definitions

 -Ecosystems

--structure

--function

-Environmental

-Problems/Solutions

ADDITIONAL INFORMATION:

Wayland Baptist University Standards for Writing -

Good writing exhibits the following characteristics:

1. **Content** is clearly purposeful, demonstrating depth, insight, and critical thinking.
2. **Structure** and **organization** are effective, coherent, and logically developed.
3. **Conventions** are conscientiously observed. This includes—-but is not limited to—-sentence structure, usage, and mechanics such as punctuation, grammar, and spelling.
4. **Style** is effective. Style has been defined as “the personality of the writing.” It includes—but is not limited to—word choice, sentence variety, voice, and attention to audience.
5. **Resources** are quoted and cited correctly, exhibiting quality and breadth. Plagiarism is unacceptable. See Plagiarism Statement in WBU Academic Catalog.

**Course communication policy:** WBU email is the official means of electronic communication between faculty and students. Students are REQUIRED to activate their WBU email address to receive or send email to the instructor. Announcements distributed through Bb will use only your WBU email address. The instructor is NOT RESPONSIBLE for communications students fail to receive, or the consequences of missed communication, if their WBU account is not set up and working properly. If you need assistance setting up your WBU email account, contact the IT support desk at 806-291-3540.

**Examination Special Requirements:**

In accordance with the School of Math and Sciences policy, there WILL BE **ONE PROCTORED EXAM** in this course. WBUonline policies stipulate that **STUDENTS** must identify appropriate PROCTORS and that the proctors MUST BE PRE-APPROVED. Qualifications for acceptable proctors and procedures for getting them approved are posted on the WBUonline web page. See https://www.wbu.edu/wbu-online/current-students/proctored-exams.htm

**Therefore** - **students MUST identify examination proctors IN ADVANCE and have them PRE-APPROVED NO LATER THAN the THIRD WEEK of the term.**