

**WAYLAND BAPTIST UNIVERSITY**  
**WBU-ONLINE 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

**TERM:** Spring 2020

**NAME OF INSTRUCTOR:** Dr. Wendi Wolfram

**OFFICE PHONE NUMBER AND WBU EMAIL ADDRESS:** [wendi.wolfram@wayland.wbu.edu](mailto:wendi.wolfram@wayland.wbu.edu)

**OFFICE HOURS, BUILDING AND LOCATION:** Online

**CLASS MEETING TIME AND LOCATION:** Online

**CATALOG DESCRIPTION:**

A general 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.

**PREREQUISITE:**

None

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

*TEXT: Concepts of Biology. Openstax College. <https://openstaxcollege.org/textbooks/concepts-of-biology>*

NOTE: The textbook is a free textbook to view online or to download via PDF version. There is also a link on the site to purchase a hardcopy if you wish to do so or to purchase digital downloads of the text for iPad or Kindle. The ISBN for those are as follows:

**Publish Date:**

April 25, 2013

**Print:**

ISBN-10: 1938168119  
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**Digital:**

ISBN-10: 1-947172-03-4  
ISBN-13: 978-1-947172-03-6

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ISBN-10: 1-938168-22-4  
ISBN-13: 978-1-938168-22-2

**License:**

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**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 University Learning Management System (LMS). Instructions for completing these assignments will be posted. Failure to complete or participate in the assignments may result in course or grade reductions. Failure to meet posted deadlines (reference **Calendar Due Date Checklist** for specific assignment submission dates) will result in a grade of zero or point reductions for the assignment affected. Students missing more than 25% of the classes may be dropped from the course. No make-up assignments or exams will be given, unless arrangements are made in advance of foreseen absences, emergencies excepted.

## 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. Students should inform the instructor of existing disabilities the first-class meeting.

## COURSE REQUIREMENTS AND GRADING CRITERIA:

- A. Students are required to access readings, videos, and podcasts through various internet sources. Assignments may require participation in various interactive tools including discussion boards, journals, online quizzes, or exams, written assignments, and student-produced video or audio files. Access to reliable internet is essential to successful participation in this course.
- B. Students are expected to read textbook assignments and compile a complete set of lecture notes. They are encouraged to become familiar with the recommended reference materials.
- C. Lectures are illustrated with a variety of visual aids and microscopic observations. Students are encouraged to email questions if they do not understand the content.
- C. Projects and Assignments: Students are required to search scientific references. A short research project is performed and written up by each student in order to become familiar with scientific methodology.
- D. Tests. Lecture exams (4-5 major exams per semester), may contain both objective and essay questions. At least one exam will be a **PROCTORED EXAM**. WBU Online policy stipulates 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 WBU Online web page. Students **MUST** identify an approved proctor in advance and have them **PRE-APPROVED NO LATER THAN** the **THIRD WEEK** of the semester.

## COURSE EVALUATION:

Lecture Exams	60%
Assignments and Reading Assessments	40%

### 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.

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):

The following schedule is subject to modification by the instructor. Topics and reading assignments may include only a portion of the select chapters. Refer to weekly agendas for specific details.

Week	Lecture Topic	Chapters
Week 1	Unit 1- Introduction to Biology	Chapter 1
	Unit 1 - Chemistry of Life	Chapter 2
Week 2	Unit 1 – Cell Structure and Function	Chapter 3, 4
	Unit 1 - Photosynthesis	Chapter 5
Week 3	<b>Exam I</b>	<b>Unit 1</b>
Week 4	Unit 2 – Cellular Reproduction	Chapter 6
	Unit 2 – Inheritance	Chapter 7, 8
Week 5	Unit 3 – Genetics	Chapter 9, 10
	<b>Exam II</b>	<b>Unit 2-3</b>
Week 6	Unit 4- Evolution	Chapter 11
	Unit 4 – Biological Diversity	Chapter 12, 13
Week 7	Unit 4 – Biological Diversity	Chapter 14, 15
	<b>Exam III - PROCTORED</b>	<b>Unit 4</b>
Week 8	Unit 5 – Animal Form and Function	Chapter 16, 17
Week 9	Unit 5 – Animal Form and Function	Chapter 18
	<b>Exam IV</b>	<b>Unit 5</b>
Week 10	Unit 6 – Ecology	Chapter 19, 20, 21
Week 11	<b>Exam V</b>	<b>Unit 6</b>

## ADDITIONAL INFORMATION:

**TIME COMMITMENT** - If taken during a 16-week semester in a traditional classroom setting, this course would meet for about 3 hours per week – about 3 hours in lecture. A good rule of thumb is that students should reserve at least as many hours outside of class as they spend in-class to review material and complete assignments. While WBU Online students have the benefit of flexibility in scheduling when they will review lecture and laboratory materials, the content of this course is NOT reduced from the traditional format and will require **AT LEAST** the same level of effort as the in-class version of the course! Therefore, to succeed in this course, students should be prepared to invest a **MINIMUM of 9 hours per week**, with additional effort required to complete lecture or assignments or to prepare for proctored exams.

### **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.