

Syllabus for
LBIO 101 Principles of Biology (Lecture)
3.0 Credit hours

I. COURSE DESCRIPTION

This course is a study of the main principles of life common to both plants and animals, including scientific methods, levels of organization, cell structure and function, photosynthesis, restoration, molecular and Mendelian genetics, reproduction, development, evolution, classification, behavior and ecology and their appropriate applications for solving current biological problems.

(Open to biology majors by permission. BIO 101 and BIO 111 may not both be taken for credit)

Corequisite: BIO 101 Lab

II. COURSE GOALS

In adapting this course to meet the needs of non-majors more adequately, emphasis is made on the understanding and appropriate application of basic biological principles to many problems of biological science in society. We believe that even this brief involvement with the philosophy, methods, findings and concepts of biology, and its interrelations with other areas of life will make a noticeable contribution toward becoming a scientifically literate citizen who will function more effectively in solving science-related problems.

III. STUDENT LEARNING OUTCOMES FOR THIS COURSE

Upon successfully completing this course the student will be able to do the following:

- A. Converse using the principles of life common to both plant and animal sacrifice.
- B. Use the scientific method in problem solving, including population and environmental stewardship.
- C. Recall terms necessary to comprehend and discuss the biological concepts presented in the course as evidenced by being able to use the terms correctly.
- D. Exhibit a mature, responsible attitude toward work, as part of the training inherent in the discipline of science and development of consistent Christian character by being prepared and punctual.
- E. Apply the principles of biology to modern problems (e.g. environmental pollution, world food problems) within Christian perspective.
- F. Read science periodicals such as Science, Scientific American, and Science News with interest and understanding.

IV. TEXTBOOKS AND OTHER LEARNING RESOURCES

A. Required Materials

Textbooks

Mader, S.S. & Windelspecht, M. 2015. Human Biology (14th Ed.). Boston: McGraw Hill. CONNECT is required. ISBN 9781260038170

B. Optional Materials

1. Netflix Subscription (<https://www.netflix.com>)

V. POLICIES AND PROCEDURES

A. University Policies and Procedures

1. Participation in each online class through discussion forums, assignments, or any other course activity is mandatory at Oral Roberts University. This counts as your attendance in the course.
2. Students taking a late exam because of an unauthorized absence are charged a late exam fee.
3. Students and faculty at Oral Roberts University must adhere to all laws addressing the ethical use of others' materials, whether it is in the form of print, electronic, video, multimedia, or computer software. Plagiarism and other forms of cheating involve both lying and stealing and are violations of ORU's Honor Code: "I will not cheat or plagiarize; I will do my own academic work and will not inappropriately collaborate with other students on assignments." Plagiarism is usually defined as copying someone else's ideas, words, or sentence structure and submitting them as one's own. Other forms of academic dishonesty include (but are not limited to) the following:
 - a. Submitting another's work as one's own or colluding with someone else and submitting that work as though it were his or hers;
 - b. Failing to meet group assignment or project requirements while claiming to have done so;
 - c. Failing to cite sources used in a paper;
 - d. Creating results for experiments, observations, interviews, or projects that were not done;
 - e. Receiving or giving unauthorized help on assignments.By submitting an assignment in any form, the student gives permission for the assignment to be checked for plagiarism, either by submitting the work for electronic verification or by other means. Penalties for any of the above infractions may result in disciplinary action including failing the assignment or failing the course or expulsion from the University, as determined by department and University guidelines.
4. By law, students are entitled to privacy regarding their records. The Family Educational Rights and Privacy Act of 1974 (FERPA), as amended and available in the [ORU Employee Handbook](#), sets forth requirements designed to protect the privacy of student education records. The law governs access to records maintained by educational institutions and the release of information from those records.
5. Students are to be in compliance with university, school, and departmental policies regarding Whole Person Assessment requirements. Students should consult the Whole Person Assessment handbooks for requirements regarding general education and the students' majors.
 - a. The penalty for not submitting electronically or for incorrectly submitting an artifact is a zero for that assignment.
 - b. By submitting an assignment, the student gives permission for the assignment to be assessed electronically.

B. Online Programs - Policies and Procedures

1. **Learning Community:** Online learning community is established through active participation in the threaded weekly discussions. The mutual exchange of ideas, information, and experiences is an essential part of the learning process, and students are encouraged to use the discussion forum as virtual classroom platform.
2. **Netiquette and Online Discussions:** Online etiquette (netiquette) expectations include the following: (1) Be polite in your answers. Always address each other by name and sign your own name. Always be kind, even when you disagree. Do NOT type in all caps or use exclamation points!!!! (2) Do not use one-word answers or say "I agree" when responding. Always give meaningful responses. (3) Be professional. Proofread for correct spelling and grammar when posting answers. Write in full sentences. (4) Answer questions and complete assignments on-time. Remember that your classmates are dependent on your timely response(s).
3. **ADA and Students with Disabilities:**
 - Click here (<http://www.brightspace.com/about/accessibility/>) to view Desire2Learn's "Accessibility Resources for Students with Disabilities."
 - Students requiring Disability Services from ORU, please click here (http://www.oru.edu/current_students/my_services/student_resources/disability-services/)
4. **Useful Links for Online Students:**
 - [Student Learning Glossary](#)
 - Library: <http://library.oru.edu>.
 - D2L Helpdesk: d2lhelp@oru.edu
 - I.T. Student Helpdesk: studenthelpdesk@oru.edu
Contact the University: please [fill out this online form](#). Please first contact your instructor for assistance with any matter specific to the course.

C. Course Policies and Procedures

Evaluation Procedures

1. Course grade will be determined by the following:

a.	Discussions	40%
b.	Exams	20%
c.	Evaluation	40%
2. Final grade is based on the percentage of total points earned.

90-100%	=	A
80-89%	=	B
70-79%	=	C
60-69%	=	D
59% or below	=	F
3. Discussions: Weekly discussion question will be posted which require both individual responses as well as responses to at least two other students' postings. Grades will be based on participation, thoughtfulness of response, personal reflection,

and inclusion of course material. These are due by Sunday 11:30 pm on the week in which they are assigned.

4. All requirements require individual effort unless indicated otherwise. Students may NOT work together. Any evidence of plagiarism or cheating on assignments will result in a zero for that assignment. Any cheating on a quiz or exam or a repeat plagiarism offence on an assignment will result in an automatically earned “F” for the semester.
5. Whole Person Assessment Requirements
The student will read a current article as part of their weekly assignments on a contemporary biology issue and prepare a written response to include a summary of main points, analysis of strengths and weaknesses of the various positions, and a discussion of the student’s position on this issue.

VI. COURSE CALENDAR

Week	Topic
1	CH 01: The Science of Biology; Introduction to Bioethics
2	CH 02: Molecules of Life CH 09: Digestive System and Nutrition
3	CH 03: Cells
4	CH 19: Patterns of Chromosome Inheritance
5	CH 21: Patterns of Genetic Inheritance
6	CH 18: Human Reproduction and Aging
7	CH 08: Emerging Infectious Diseases

NOTE: For more details, refer to the weekly overview pages.

Course Inventory for ORU's Student Learning Outcomes
LBIO 101—Principles of Biology (Lecture)

This course contributes to the ORU student learning outcomes as indicated below:

Significant Contribution – Addresses the outcome directly and includes targeted assessment.

Moderate Contribution – Addresses the outcome directly or indirectly and includes some assessment.

Minimal Contribution – Addresses the outcome indirectly and includes little or no assessment.

No Contribution – Does not address the outcome.

	OUTCOMES & Proficiencies/Capacities	Significant Contribution	Moderate Contribution	Minimal Contribution	No Contribution
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1	Outcome #1 – Spiritually Alive Proficiencies/Capacities				
1A	Biblical knowledge			X	
1B	Sensitivity to the Holy Spirit			X	
1C	Evangelistic capability			X	
1D	Ethical behavior			X	

2	Outcome #2 – Intellectually Alert Proficiencies/Capacities				
2A	Critical Thinking	X			
2B	Information Literacy	X			
2C	Global & historical perspectives		X		
2D	Aesthetic appreciation				X
2E	Intellectual creativity		X		

3	Outcome #3 – Physically Disciplined Proficiencies/Capacities				
3A	Healthy lifestyle			X	
3B	Physically disciplined lifestyle				X

4	Outcome #4 – Socially Adept Proficiencies/Capacities				
4A	Communication skills		X		
4B	Interpersonal skills		X		
4C	Appreciation of cultural & linguistic differences				X
4D	Responsible citizenship	X			
4E	Leadership capacity			X	