



# PRINCIPLES OF BIOLOGY

## Disclaimer Statement

The final examination in this course will be remotely proctored. Please be sure you have your computer's camera on so you can display your photo identification so the proctoring system can verify your identity. If you run into any issues please reach out to your Success Coach.

You can also prepare for your examination by reading this helpful guide: <https://www.talview.com/en/test-taker-guide>

## BIO100 — Principles of Biology, 3.0 hours

### PROFESSOR

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Jared Elswick is an Aviation Meteorologist with 12 years of experience in the science field. Jared started his career in meteorology with the United States Air Force where he served for 6 ½ years providing weather data of both ground and air units here and abroad. Jared earned his BS in Environmental Science and earned a Master of Science in Environmental Policy and Management. Jared's current role is as a Senior Meteorologist at the Weather Company an IBM business where he provides real-time weather updates to airlines and airport terminals across the globe.

Jared was born in raised in Kentucky and has lived and worked in IL, MS, NM, and South Korea. Jared currently lives in Texas with his lovely wife where he enjoys hiking, swimming, reading books, and spending time with family. He looks forward to interacting with you and will happily share his knowledge, insight, and experience in this learning platform.

### CONTACT INFORMATION

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Email: [jelswick@lakewood.edu](mailto:jelswick@lakewood.edu)

### ONLINE SUPPORT (IT) AND MOODLE NAVIGATION:

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All members of the Lakewood University community who use the University's computing, information or communication resources must act responsibly. Support is accessible by calling 1-800-517-0857 option 2 or by emailing [info@lakewood.edu](mailto:info@lakewood.edu)

### BOOKS AND RESOURCES

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Solomon, Eldra, P. et al. Biology. 11th Edition. Cengage Learning US, 2023.

### EVALUATION METHOD

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Graded work will receive a numeric score reflecting the quality of performance.  
Course Requirement Summary

- Assignments - Total of 300 Points
- Weekly discussion forums-Total of 80 Points
- Final Exam - 50 Points

# GRADING SCALE

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Graded work will receive a numeric score reflecting the quality of performance as given above in evaluation methods. The maximum number of points a student may earn is 870. To determine the final grade, the student's earned points are divided by 870.

Your overall course grade will be determined according to the following scale:

A = (90% - 100%)

B = (80% - 89%)

C = (70% - 79%)

D = (60% - 69%)

F &lt; (Below 60%)

# ACADEMIC INTEGRITY/ PLAGIARISM:

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Cheating (dishonestly taking the knowledge of another person whether on a test or an assignment and presenting it as your work) and plagiarism (to take and pass off as one's own the ideas or writing of another) are a serious issue. While it is legitimate to talk to others about your assignments and incorporate suggestions, do not let others "write" your assignments in the name of peer review or "borrow" sections or whole assignments written by others. We do get ideas from life experiences and what we read but be careful that you interpret these ideas and make them your own.

I am aware that many types of assignments are available on the internet and will check these sources when there is legitimate suspicion.

Penalty is a zero on the assignment. In cases where there is a major or continuous breach of trust, further discipline, such as an "F" in the course, may be necessary.

The major consequence of any form of cheating is damage to your character and the result of trust and respect.

# DISABILITY ACCOMMODATIONS

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Students who have a disability and wish to request an academic accommodation should contact Jim Gepperth, the Disabilities Services Coordinator and Academic Dean. The student can request an accommodation at any time although it is encouraged to do so early in the enrollment process. The student should complete an accommodation request form which begins a conversation between the school and the student regarding the nature of their disability and an accommodation that would help the student succeed in their program. The school may request documentation regarding the disability to address the accommodation request effectively. The school will communicate to the student the type of accommodation arranged. This process typically follows a team approach, bringing together persons from the academic department (including the instructor) and personnel from other departments as necessary. Additional information on disability accommodations may be found in the Lakewood University Catalog.

Disability Services Email: [disabilityservices@lakewood.edu](mailto:disabilityservices@lakewood.edu)

# SUPPLEMENTAL TEXTS

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You can use the following resources to assist you with proper source citation.

American Psychological Association Style Guide- [https://www.mylakewoodu.com/pluginfile.php/118179/mod\\_resource/content/1/APA%20Style%20Guide%207th%20edition.pdf](https://www.mylakewoodu.com/pluginfile.php/118179/mod_resource/content/1/APA%20Style%20Guide%207th%20edition.pdf)

The Purdue OWL website is also a helpful resource for students. Here is a link to the OWL website: [https://owl.purdue.edu/owl/research\\_and\\_citation/apa\\_style/apa\\_formatting\\_and\\_style\\_guide/general\\_format.html](https://owl.purdue.edu/owl/research_and_citation/apa_style/apa_formatting_and_style_guide/general_format.html)

# LIBRARY

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Mary O'Dell is the Librarian on staff at Lakewood University

She is available by appointment. You can make an appointment with her by emailing her at [modell@lakewood.edu](mailto:modell@lakewood.edu) or call at 1-800-517-0857 X 730

You may also schedule a meeting at this link: <https://my.setmore.com/calendar#monthly/r3a761583354923270/01032020>

She can assist you with navigating LIRN, research, citations etc.

## SUPPORT

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Each student at Lakewood University is assigned a Success Coach. Your Success Coach exists to assist you with academic and supportive services as you navigate your program. They will reach out to you, often, to check-in. Please use the resources they offer.

Student Services is available to assist with technical questions regarding Lakewood University and all services available to you.

1-800-517-0857 option 2  
[info@lakewood.edu](mailto:info@lakewood.edu)  
[studentservices@lakewood.edu](mailto:studentservices@lakewood.edu)

## CAREER SERVICES

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Students are offered Career Services at any point as they journey their academics at Lakewood University.

1-800-517-0857 option 2  
[careerservices@lakewood.edu](mailto:careerservices@lakewood.edu)

## LESSONS

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TITLE	COURSE TOPIC	READINGS/ASSIGNMENTS	DUE	OBJECTIVES
Lesson #1	<ul style="list-style-type: none"><li>A View of Life</li></ul>	Chapter One in Textbook Forum One	Upon completion of lesson	Objective 1
Lesson #2	<ul style="list-style-type: none"><li>Atoms and Molecules</li></ul>	Chapter Two in Textbook Forum Two	Upon completion of lesson	Objective 2
Lesson #3	<ul style="list-style-type: none"><li>Chemistry of Life and the Organization of the Cell</li></ul>	Chapter Three in Textbook Chapter Four in Textbook Forum Three	Upon completion of lesson	Objective 3
Lesson #4	<ul style="list-style-type: none"><li>Organic Compounds</li></ul>	Chapter Three in Textbook Forum Four	Upon completion of lesson	Objective 4
Lesson #5			Upon completion of lesson	Objective 5

- Organization of the Cell and Biological Membranes
- Chapter Four in Textbook  
Chapter Five in Textbook  
Forum Five  
Assignment One

TITLE	COURSE TOPIC	READINGS/ASSIGNMENTS	DUE	OBJECTIVES
Lesson #6	<ul style="list-style-type: none"> <li>• Cell Communication, Energy, and Metabolism</li> </ul>	Chapter Six in Textbook Chapter seven in Textbook Forum Six Assignment Two	Upon completion of lesson	Objective 6

TITLE	COURSE TOPIC	READINGS/ASSIGNMENTS	DUE	OBJECTIVES
Lesson #7	<ul style="list-style-type: none"> <li>• How Cells Make ATP and Photosynthesis</li> </ul>	Chapter Eight in Textbook Chapter Nine in Textbook Forum Seven	Upon completion of lesson	Objective 7

TITLE	COURSE TOPIC	READINGS/ASSIGNMENTS	DUE	OBJECTIVES
Lesson #8	<ul style="list-style-type: none"> <li>• Chromosomes, DNA and Heredity</li> </ul>	Chapter Ten in Textbook Chapter Eleven in Textbook Chapter Twelve in Textbook Forum Eight Assignment Three	Upon completion of lesson	Objective 8

## DESCRIPTION

This course is designed to introduce biology at an entry level by examining the hierarchy that ranges from the fundamentals of cell biology to the physiology of organisms, and the interactions among those organisms in their environment.

### Program Objectives

1. Define the levels of biological organizations
2. Explain the scientific process and method
3. Identify elements of chemistry
4. Explore organic compounds
5. Describe the organizations of the cell
6. Summarize the energy and metabolism within the human body
7. Define photosynthesis
8. Explore the basic principles of heredity

## OBJECTIVES

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