

Cincinnati Christian University
NSCI 220 99 Biology (Online)
Fall 2018 | 3 semester credit hours

Instructor: Dr. Julie Bedi	Office Location: PH 267
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Foster School of Biblical Studies, Arts & Sciences

The mission of Cincinnati Christian University is to teach men and women to live by biblical principles and to equip and empower them with character, skills, insight, and vision to lead the church and to impact society for Christ.

Course Description

An introductory study in the basics of biology, focusing on human organ systems. Through a variety of experiences, students will learn general life processes and how these apply to the world in which we live.

Required Text

Human Biology 15th Edition. Sylvia S. Mader and Michael Windelspecht. McGraw Hill, 2018. ISBN-10: 1259689794.

Learning Objectives

At the end of this course, the student will be able to:

- Understand the definitions of life and of science
- Understand the basic chemistry of the life
- Understand cell structure and function
- Understand the organization of the human body, the function of each organ system, and how diseases affect function
- Understand heredity and genetic inheritance
- Understand contrasting views on origins, creationism, intelligent design, and evolution
- Read, comprehend, evaluate, and reflect on current scientific literature and ideas in light of academic insights, personal experiences, scientific evidence, societal values, and a Christian worldview

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Arts & Sciences Departmental Outcomes

CCU's Arts & Sciences program is designed to prepare students to...

1. communicate effectively in both oral and written forms in a variety of rhetorical contexts, including Standard English,
2. adeptly utilize modern research and writing tools,
3. identify decisive events and ideas in the human experience and assess their influences on modern culture and thought,
4. employ critical and creative thinking and mathematic and scientific principles for problem solving, literary and socio-cultural analysis, intercultural understanding, and research in the sciences and humanities,
5. demonstrate the integration of academic insights and experiences by constructing and employing a personal framework in which ethical decisions can be made in light of societal values and a Christian worldview.

Grading Policy

Letter grades will be assigned based on the published grade point system in the CCU Academic Catalog. Grades will be comprised of the following:

Final Capstone Project	20%
Module Notes	20%
Quizzes	20%
Module Assignments*	40%

*"Module assignments" includes projects, writing assignments, online labs, discussion boards, and other assigned course activities

Quizzes

Quizzes assess whether the course objectives are being met. If a student misses a scheduled quiz without making prior arrangements with the instructor, it cannot be made up unless the instructor makes an exception. Even then, a penalty may be given. It is the responsibility of the student to take the quiz during the scheduled window or to make arrangements otherwise. Please ensure that you exercise academic integrity. The quiz responses should be your own.

Assignments

Graded and ungraded assignments and projects will be given throughout the course to help students understand and apply major course concepts. Assignments will be posted on Canvas at least one week before their due date. The final capstone project will be due at the end of the semester and will be introduced during course Module #2. This will take the place of a final exam.

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Late Assignments

An assignment will be considered late if it is not submitted by the date/time on which it is due. 20% will be deducted from the score per day for late assignments. Assignments that are late due to severe illness or an emergency situation *may* be accepted depending on the circumstances. If you find yourself in a situation that prohibits you from turning in your assignment on time, it is in your best interest to address that issue with your instructor **prior** to the due date.

Academic Integrity

This class will follow CCU's regulations pertaining to academic integrity. A copy may be found in CCU's Student Handbook.

Disability Services: Students who require academic accommodations due to any documented physical, psychological, or learning disability should request assistance from the Student Services Department within the first two weeks of class. The Student Services Department is located on the upper level of the Presidents Hall. You may also contact the office by phone (513.244.8150).

Course Outline

The *Human Biology (15th Edition)* textbook will be used as the base outline for the course topics. Details regarding assignments and due dates will be announced on Canvas at least one week in advance of the due date. The course will be organized by "modules."

Note from your instructor: As we progress throughout the semester, you will be able to access all the details and materials for each module on Canvas. As we finish one module, I will open the next module so you will have access when you need it. Each module will begin with an introductory video by me and/or videos from good quality online sources to provide an overview of the module topics. I will post a reading guide to help structure your chapter reading and direct you toward the big ideas and key points. I will also post diagrams for you to label, color, etc. to help you keep track of the organs and systems we are studying. After watching the videos, reading the chapter, and completing the corresponding notes, then you will be ready to assess and apply your learning through the assigned module quizzes and activities. You will submit any graded assignments through Canvas. I will post specific instructions regarding assignments for one module at a time. If you keep up with the modules one at a time, I promise you will benefit most from this course! Try to enjoy what you are learning and be mindful about your study one module at a time.

Since this is an online course, keeping up with these videos, chapter readings (around 70 pages per module), and corresponding notes/diagrams will be crucial to your success in this course. There will be quizzes, projects, labs, activities, article/writing assignments, discussions, etc. as you would find in an in-person type course, but in an online course, you must take more of the responsibility for keeping up the pace of your learning. If it is daunting for you to schedule your time appropriately, I will be happy to give you some suggestions to help you! I hope that you are excited about this opportunity to study the bodies God

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created for us to live in while here on earth and learn how to better care for them! The biggest take-away I have had from my work in medical research has been that life and health are precious gifts from our Heavenly Father. I look forward to a wonderful semester of study together!

If I can be of help to you, please e-mail me anytime, or come visit me on campus during my office hours. I am also happy to meet with you at other times if you would like to schedule an appointment outside of office hours. Happy learning and worshipping as we behold the creativity, wonder, intelligence, and beauty of God!

Fall 2018 Course Outline*
Module 1: Human Organization
<ul style="list-style-type: none"> • Chemistry of Life (pages 19 – 42) • Cell Structure and Function (pages 43 – 66) • Organization and Regulation of Body Systems (pages 67 – 90)
Module 2: Maintenance of the Human Body Part 1
<ul style="list-style-type: none"> • Cardiovascular System: Heart and Blood Vessels (pages 91 – 112) • Cardiovascular System: Blood (pages 113 – 129) • The Lymphatic and Immune Systems (pages 130 – 148) • Biology of Infectious Diseases (pages 149 – 168)
Module 3: Maintenance of the Human Body Part 2
<ul style="list-style-type: none"> • Digestive System and Nutrition (pages 169 – 196) • Respiratory System (pages 197 – 217) • Urinary System (pages 218 – 237)
Module 4: Movement and Support in Humans
<ul style="list-style-type: none"> • Skeletal System (pages 238 – 259) • Muscular System (pages 260 – 281)
Module 5: Integration and Coordination in Humans
<ul style="list-style-type: none"> • Nervous System (pages 282 – 308) • Senses (pages 309 – 330) • Endocrine System (pages 331 – 357)
Module 6: Reproduction in Humans
<ul style="list-style-type: none"> • Reproductive System (pages 358 – 385) • Development and Aging (pages 386 – 410)
Module 7: Human Genetics
<ul style="list-style-type: none"> • Patterns of Chromosome Inheritance (pages 411 – 433) • Cancer (pages 434 – 452) • Patterns of Genetic Inheritance (pages 453 – 475) • DNA Biology and Technology (pages 476 – 502)
Module 8: Human Origins
<ul style="list-style-type: none"> • Human Evolution (pages 503 – 527) • Additional assigned readings on origins, creationism, and intelligent design • Ecology and the Nature of Ecosystems (pages 528 – 548) • Human Interactions with the Biosphere (pages 549 -)

**The instructor reserves the right to change or amend any part of this course plan as deemed necessary.*