

Principles of Human Biology

BIOL-102

CG Section 8WK 11/08/2019 to 04/16/2020 Modified 04/29/2022

Course Description

An examination of structure, function, development and homeostatic interaction in higher organisms with special emphasis on human body systems.

Requisites

For information regarding prerequisites for this course, please refer to the [Academic Course Catalog](https://catalog.liberty.edu/) (<https://catalog.liberty.edu/>).

Rationale

This course will convey to the student that we are indeed fearfully and wonderfully made (Psalm 139). It will help the student gain a better appreciation and understanding of how each part of the body functions distinctly, yet in concert with all the other parts to form a beautifully engineered biological machine, the human body. BIOL 102 is an approved general education science course for non-technical (science, math, and engineering) majors.

Course Learning Outcomes

Upon successful completion of this course, the student will be able to:

- A. Discuss the structures and the functions of the following body systems: skeletal, muscular, cardiovascular, immune, respiratory, digestive, urinary, and reproductive systems.
- B. Recognize cell organelles and their functions.
- C. Identify processes by which atoms and molecules enter and leave cells.
- D. Describe the major tissue types, functions, and locations within the body.

General Education Foundational Skill Learning Outcomes: Social and Scientific Inquiry (SSI)

- A. SSI 1: Demonstrate an understanding of the impact of social and/or natural sciences on the world in which we live.
- B. SSI 3: Apply solutions for a social and/or scientific dilemma experienced in society.
- C. SSI 4: Describe how social and/or scientific inquiry equips human beings to be participants in God's redemptive work.

Course Resources

Click on the following link to view the required resource(s) for the term in which you are registered: [Liberty University Online Bookstore](https://bncvirtual.com/liberty) (<https://bncvirtual.com/liberty>).

Additional Materials for Learning

- A. Computer with basic audio/video output equipment
- B. Internet access (broadband recommended)
- C. Canvas [recommended browsers](https://community.canvaslms.com/t5/Canvas-Basics-Guide/What-are-the-browser-and-computer-requirements-for-Canvas/ta-p/66) (<https://community.canvaslms.com/t5/Canvas-Basics-Guide/What-are-the-browser-and-computer-requirements-for-Canvas/ta-p/66>)
- D. Microsoft Word

- E. Microsoft PowerPoint
- F. A digital camera or mobile device with camera that can transfer images to your computer
- G. Computer Printer
- H. Computer Scanner

☰ Course Assignments

Textbook readings, other assigned readings, and lecture presentations

Course Requirements Checklist

After reading the Course Syllabus and [Student Expectations \(https://www.liberty.edu/institutional-effectiveness/student-expectations/\)](https://www.liberty.edu/institutional-effectiveness/student-expectations/), the student will complete the related checklist found in the Course Overview.

Discussions (2)

Discussions are collaborative learning experiences. Therefore, the student will create a thread in response to the provided prompt. Each thread must be at least 250 words and demonstrate course-related knowledge. In addition to the thread, the student is required to reply to 2 other classmates' threads. Each reply must be at least 125 words. This assignment aligns with the following FSLOs: SSI 1, SSI 3, SSI 4

Homework Chapter Assignments (8)

The student will complete an online assignment each Module: Week in Cengage's Mindtap digital platform. These assignments will reinforce and assess what is read in the course textbook and presented in the course presentations.

Blood Typing Activity Assignment

The student will perform the lab activity by following the instructions. This includes taking a picture of each sample with simulated anti sera in the blood typing slide. Results of the experiment will be recorded in a PowerPoint presentation.

Immune System Crossword Puzzle Assignment

The student will complete a crossword puzzle using terms to match definitions pertaining to the Learn materials.

Quizzes (8)

Each quiz will cover the Learn material for the Module: Week in which it is assigned. Each quiz will be open-book/open-notes, which means the student may refer only to his or her personal notes and materials for this course during the assessment. Quizzes will contain a mix of 25 multiple choice, true/false, and short answer/essay questions and have a 1-hour time limit. Quiz questions will be presented one at a time.

✓ Course Grading

Course Requirements Checklist	10
Discussions (2 at 60 pts ea)	120
Homework Chapter Assignments (8 at 20 pts ea)	160
Blood Typing Lab Assignment	60
Immune System Crossword Puzzle Assignment	30

Quizzes (5 at 75 pts ea, 3 at 85 pts ea)	630
Total	1010

Policies

Late Assignment Policy

Course Assignments, including discussions, exams, and other graded assignments, should be submitted on time.

If the student is unable to complete an assignment on time, then he or she must contact the instructor immediately by email.

Assignments that are submitted after the due date without prior approval from the instructor will receive the following deductions:

1. Late assignments submitted within one week after the due date will receive up to a 10% deduction.
2. Assignments submitted more than one week and less than 2 weeks late will receive up to a 20% deduction.
3. Assignments submitted two weeks late or after the final date of the course will not be accepted outside of special circumstances (e.g. death in the family, significant personal health issues), which will be reviewed on a case-by-case basis by the instructor.
4. Group projects, including group discussion threads and/or replies, and assignments will not be accepted after the due date outside of special circumstances (e.g. death in the family, significant personal health issues), which will be reviewed on a case-by-case basis by the instructor.

Disability Assistance

Students with a disability and those with medical conditions associated with pregnancy may contact Liberty University's Online Office of Disability Accommodation Support (ODAS) at LUOODAS@liberty.edu for accommodations. Such accommodations require appropriate documentation of your condition. For more information about ODAS and the accommodations process, including how to request an accommodation, please visit <https://www.liberty.edu/online/online-disability-accommodation-support/> (<https://www.liberty.edu/online/online-disability-accommodation-support/>). Requests for accommodations not related to disabilities or pregnancy must be directed to the Registrar's Office, which generally handles medical needs support.

If you have a complaint related to disability discrimination or an accommodation that was not provided, you may contact ODAS or the Office of Equity and Compliance by phone at (434) 592-4999 or by email at equityandcompliance@liberty.edu. Click to see a full copy of Liberty's [Discrimination, Harassment, and Sexual Misconduct Policy](https://www.liberty.edu/media/1226/Liberty_University_Discrimination_Harassment_and_Sexual_Misconduct_Policy.pdf) (https://www.liberty.edu/media/1226/Liberty_University_Discrimination_Harassment_and_Sexual_Misconduct_Policy.pdf) or the [Student Disability Grievance Policy and Procedures](http://www.liberty.edu/media/8021/Disability_Grievance_Procedures.pdf) (http://www.liberty.edu/media/8021/Disability_Grievance_Procedures.pdf).

Course Attendance

In an effort to comply with U.S. Department of Education policies, attendance is measured by physical class attendance or any submission of a required assignment within the enrollment dates of the course (such as examinations, written papers or projects, any discussion posts, etc.) or initiating any communication with one's professor regarding an academic subject. More information regarding the [attendance policy](https://nam04.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwiki.os.liberty.edu%2Fdisplay%2FIE%2FOnline%2BAttendance%2BAnd%2BNon-Attendance&data=02%7C01%7Caccollins2%40liberty.edu%7Cd91431fa6ac547056b5408d833029e1a%7Cbf8218eb3024465a9934a39c97251b2%7C0%7C0%7C637315433613719138&sdata=%2BNBTsPOoXuHAPLflSQRugK7cRSuV6UyC7qD3agf3l2k%3D&reserved=0) (<https://nam04.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwiki.os.liberty.edu%2Fdisplay%2FIE%2FOnline%2BAttendance%2BAnd%2BNon-Attendance&data=02%7C01%7Caccollins2%40liberty.edu%7Cd91431fa6ac547056b5408d833029e1a%7Cbf8218eb3024465a9934a39c97251b2%7C0%7C0%7C637315433613719138&sdata=%2BNBTsPOoXuHAPLflSQRugK7cRSuV6UyC7qD3agf3l2k%3D&reserved=0>) can be found in the [Academic Course Catalogs](https://nam04.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.liberty.edu%2Findex.cfm%3FPID%3D791&data=02%7C01%7Caccollins2%40liberty.edu%7Cd91431fa6ac547056b5408d833029e1a%7Cbf8218eb3024465a9934a39c97251b2%7C0%7C0%7C637315433613729132&sdata=DjjhMiRBFnF%2B2ZJUC8eBd1OdNb26S9ADukODYsilXIA%3D&reserved=0) (<https://nam04.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.liberty.edu%2Findex.cfm%3FPID%3D791&data=02%7C01%7Caccollins2%40liberty.edu%7Cd91431fa6ac547056b5408d833029e1a%7Cbf8218eb3024465a9934a39c97251b2%7C0%7C0%7C637315433613729132&sdata=DjjhMiRBFnF%2B2ZJUC8eBd1OdNb26S9ADukODYsilXIA%3D&reserved=0>). Regular attendance in online courses is expected throughout the length of the term. Students who do not attend within the first week of a sub-term by submitting a required academic assignment (such as the Course Requirements Checklist, an examination, written paper or project, discussion post, or other academic activity) will be dropped from the course. Students who wish to re-engage in the course are encouraged to contact Academic Advising to discuss their enrollment options. Students who begin an online course, but at some point in the semester cease

attending, and do not provide official notification to withdraw, will be assigned a grade of "FN" (<https://nam04.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwiki.os.liberty.edu%2Fdisplay%2FIE%2FUnofficial%2BWithdrawals&data=02%7C01%7Caccollins2%40liberty.edu%7Cd91431fa6ac547056b5408d833029e1a%7Cbaf8218eb3024465a9934a39c97251b2%7C0%7C0%7C637315433613729132&sddata=MoMvZdPfa69InuhVHMHAVgu59ZP0Fw45xJTU9PIBrU%3D&reserved=0>). Students wishing to withdraw from courses after the official start date should familiarize themselves with the [withdrawal policy](#).

Grading Scale

A	B	C	D	F
900-1010	800-899	700-799	600-699	0-599

For courses with a Pass/NP final grade, please refer to the Course Grading section of this syllabus for the assignment requirements and/or point value required to earn a Passing final grade.

Add/Drop Policy

The full policy statement and procedures are published in the [Policy Directory \(https://wiki.os.liberty.edu/display/IE/Dropping+and+Adding+Online+Classes\)](https://wiki.os.liberty.edu/display/IE/Dropping+and+Adding+Online+Classes).

Honor Code

Liberty University comprises a network of students, Alumni, faculty, staff and supporters that together form a Christian community based upon the truth of the Bible. This truth defines our foundational principles, from our Doctrinal Statement to the Code of Honor. These principles irrevocably align Liberty University's operational procedures with the long tradition of university culture, which remains distinctively Christian, designed to preserve and advance truth. Our desire is to create a safe, comfortable environment within our community of learning, and we extend our academic and spiritual resources to all of our students with the goal of fostering academic maturity, spiritual growth and character development.

Communities are predicated on shared values and goals. The Code of Honor, an expression of the values from which our Doctrinal Statement was born, defines the fundamental principles by which our community exists. At the core of this code lie two essential concepts: a belief in the significance of all individuals, and a reliance on the existence of objective truth.

While we acknowledge that some may disagree with various elements of the Code of Honor, we maintain the expectation that our students will commit to respect and uphold the Code while enrolled at Liberty University.

Adherence to the principles and concepts established within facilitates the success of our students and strengthens the Liberty community.

The Code of Honor can be viewed in its entirety at <http://www.liberty.edu/index.cfm?PID=19155> (<http://www.liberty.edu/index.cfm?PID=19155>).

Schedule

When	Topic	Notes
Course Overview	Student Acknowledgements	Course Requirements Checklist
Module 1: Week 1	Learn	Read: 3 items Watch: 11 items
	Apply	Homework: Science and Chemistry of Life Assignment Quiz: Science and Chemistry of Life

When	Topic	Notes
Module 2: Week 2	Learn	Read: 4 items Watch: 10 items Explore: 1 item
	Apply	Homework: Cells, Tissues, Organs, and Organ Systems Assignment Discussion: Alcohol Abuse Quiz: Organization of Life
Module 3: Week 3	Learn	Read: 2 items Watch: 9 items
	Apply	Homework: The Skeletal and Muscular Systems Assignment Quiz: Skeletal and Muscular Systems
Module 4: Week 4	Learn	Read: 2 items Watch: 9 items
	Apply	Blood Typing Activity Assignment Homework: The Heart, Blood, and Circulatory System Assignment Quiz: Heart, Blood, and Circulatory System
Module 5: Week 5	Learn	Read: 2 items Watch: 11 items
	Apply	Immune System Crossword Puzzle Assignment Homework: Immunity, Disease, and the Respiratory System Assignment Quiz: Immune and Respiratory Systems
Module 6: Week 6	Learn	Read: 2 items Watch: 9 items
	Apply	Homework: Nutrition, and the Urinary System Assignment Discussion: Disease Process Quiz: Digestive and Urinary Systems
Module 7: Week 7	Learn	Read: 2 items Watch: 14 items
	Apply	Homework: The Nervous and Sensory Systems Assignment Quiz: Nervous and Sensory Systems
Module 8: Week 8	Learn	Read: 3 items Watch: 9 items

When	Topic	Notes
	Apply	Homework: The Endocrine and Reproductive Systems Assignment Quiz: Endocrine and Reproductive Systems