

**BIOLOGY 107 INTRODUCTORY BIOLOGY II**  
**COURSE SYLLABUS – SPRING 2019**  
**PLEASE READ THIS SYLLABUS CAREFULLY!!**

**LECTURE INSTRUCTORS**

Section 001:Dr. Luther	<a href="mailto:dluther@gmu.edu">dluther@gmu.edu</a>	MWF 9:30-10:20am	ENG 1109
Section 002 Dr. Bell	<a href="mailto:tbell22@gmu.edu">tbell22@gmu.edu</a>	MW 3:00-4:15pm	ENT 80
Section 003 Dr. Laemmerzähl	<a href="mailto:alaemmer@gmu.edu">alaemmer@gmu.edu</a>	R 4:30-7:10pm	DK 1006
Section DL1 Dr. Visseren	<a href="mailto:tvissere@gmu.edu">tvissere@gmu.edu</a>	online	

**COURSE COORDINATOR**

Dr. D. Luther  
e-mail: [dluther@gmu.edu](mailto:dluther@gmu.edu)

**REQUIRED TEXTS**

**Lecture Text:** Campbell, Reece, Taylor, Simon and Dickey. 2017. *Biology: Concepts and Connections*, 9<sup>th</sup> ed., Pearson Benjamin Cummings, San Francisco.

**COMPUTER SOFTWARE USED IN THIS COURSE**

We will be using Pearson's MASTERINGBIOLOGY website for this course. You will be using this site to access learning activities, do homework assignments, and take online quizzes. If you purchased your books from the GMU bookstore, it comes packaged with an access code for the Masteringbiology.com website. If you purchased a used text or purchased your text from another source, you may need to purchase access to the masteringbiology.com site separately. It is possible to purchase a subscription to the masteringbiology.com website separately, but you will need it for graded assignments.

**Basic requirements for Mastering**

**Windows XP, Vista, Windows 7 Supported browsers:** \* [Firefox](#) 13.0 (Windows XP, Windows 7) [Google Chrome](#) 19.0 [Internet Explorer](#) 8.0, 9.0 (Windows 7) [Safari](#) 5.0

**Mac OS 10.6, 10.7 Supported browsers:** \* [Firefox](#) 13.0 [Safari](#) 5.0 [Google Chrome](#) 19.0

\* Additional browser versions may also be supported. As newer versions become available, these are also tested as part of Pearson's commitment to quality. If any recent browser version is not supported, it will be noted in these system requirements.

**What about tablets?** An app is available for the [Pearson eText on tablets](#). The Apple iPad is not currently supported by Mastering. Mastering assignments require Adobe Flash technology. (More about [Flash Player requirement](#)).

Further information can be found at the following website: <http://www.masteringbiology.com/site/support/system-requirements.html>

**BIO 107 - DESCRIPTION AND OBJECTIVES:**

Biology 107 is part of the University General Education program and, as such, fulfills, in part, the Natural Science requirement for a 2-semester laboratory science. The General Education program has four goals: 1) to ensure that all undergraduates develop skills in information gathering, written and oral communication, and analytical and quantitative reasoning; 2) to expose students to the development of knowledge by emphasizing major domains of thought and methods of inquiry; 3) to enable students to attain a breadth of knowledge that supports their specializations and contributes to their education in both personal and professional ways; and 4) to encourage students to make important connections across boundaries (for example: among disciplines; between the university and the external world; between the United States and other countries). It is the instructors' aim that we enable our students to achieve these goals!

Biology 107 is the second of a 2-semester sequence in Introductory Biology designed primarily for non-majors. It begins with an exploration of the concept of animal homeostasis, then expands on this by looking into the structure and function of the major animal organ systems, with emphasis on mammalian systems. The second part of the semester includes an

examination of the structure and function of higher plants, as well as some major concepts in ecology. No credit will be awarded to students who are not appropriately enrolled by the official deadlines.

The general education natural sciences courses engage students in scientific exploration; foster their curiosity; enhance their enthusiasm for science; and enable them to apply scientific knowledge and reasoning to personal, professional and public decision-making. To achieve these goals, students are challenged to 1) Understand how scientific inquiry is based on investigation of evidence from the natural world, and that scientific knowledge and understanding, 2) Recognize the scope and limits of science, 3) Recognize and articulate the relationship between the natural sciences and society and the application of science to societal challenges (e.g., health, conservation, sustainability, energy, natural disasters, etc.) 4) Evaluate scientific information (e.g., distinguish primary and secondary sources, assess credibility and validity of information) 5) Participate in scientific inquiry and communicate the elements of the process.

**It is strongly recommended that students successfully complete BIOL 103 *before* taking this course.**

**GMU e-mail:** All George Mason students are issued an e-mail account. Instructors often find it convenient or necessary to e-mail individual students, or the class as a whole. The George Mason in-house policy is to use only the GMU e-mail accounts. Therefore, it is necessary for the students to activate and frequently check their GMU e-mail account to insure receiving messages in a timely fashion.

**GMU ID's:** All students are issued a GMU photo ID card. Please carry this with you, especially during exams, as it will be necessary for instructors to verify each student's identification. Instructors are not required to honor identification cards other than those issued by the University.

**ATTENDANCE:** Regular attendance in both laboratory and lecture is crucial to successful completion of this course. Studies have shown that students who attend each class perform far better than those whose attendance is irregular. Many important, interesting and subtle points can be made by instructors, which may not be presented in the textbook. Instructors may also make announcements regarding changes in scheduling or material to be covered. Therefore, students are expected to attend every lecture, to arrive on time, and to remain until class is dismissed. **Students are responsible for being aware of all information and announcements presented in class, whether or not they are present.**

Students are also responsible for being sure they are properly enrolled in the course. If a student drops the course, he or she must see to the paperwork him or herself. Instructors will not "automatically" drop a student who merely stops coming to class.

**CLASSROOM BEHAVIOR:** If something is not clear to you, by all means ask questions! A well-timed question can help everyone in class, even the instructor. Students are also expected to be respectful and considerate of one another as well as their instructors. To that end, please listen when someone else is talking, and **turn off all cell phone ringers** or other noise-makers while in class or lab. If it is necessary to carry on activities that are not directly related to the material being presented in class, please conduct these activities elsewhere. In order to make the most effective use of both students' and instructor's time and energy, disruptive students may be required to leave the classroom.

**STUDENTS WITH DISABILITIES:** We are happy to accommodate students with disabilities. If you feel this would be helpful to you, you must contact the instructor as well as the Office of Disability Services (ODS) at 993-2474. All academic accommodations must be arranged through the DRC.

**HONOR CODE:** The Biology Department strongly enforces the GMU Honor Code. Students are expected to read and adhere to the George Mason University Honor Code. **Ignorance of the Honor Code is no excuse for infractions thereof.** All work done in lecture and lab (exams, data sheets, quizzes, etc.) must be the sole work of the student. Copying data, falsifying data, cheating on exams and quizzes, failing to credit the work of others are all violations of the Honor Code and will be dealt with most seriously.

**CANCELED CLASSES:** If an examination is scheduled for a day on which classes are canceled due to weather or any other reason, the examination will be given during the next scheduled class. Call (703) 993-1000 for official notification of canceled classes.

**GRADING:** Two hourly lecture exams will be given, each worth 130 points. The final exam will be cumulative and worth 250 points. Hourly exams for classes meeting multiple times per week will be given on the last meeting of the week. In those lecture sections, which meet only once a week for 2.67 hr., the hourly exams will be given during the first portion of the class period; after a short break, the lecture will resume. For the hourly and final exams, students will be required to bring with them one or two sharpened pencils, a good eraser, a **Scantron form No. SC882-E**, and a **valid GMU ID card**. The use

by students of electronic devices of any type is prohibited during exams. The hourly and final exams will start promptly at the scheduled time. Students are expected to arrive on time to all exams!

Students arriving late to an exam will be seated only at the discretion of the instructor, and will be given no extra time to take the exam. Once one student has finished and handed in an exam, no other, late arriving students will be allowed to take the exam - No Exceptions!

**Due to the large size of the lecture classes absolutely no make-up exams, including the final exam, will be given before or after the exam.** In exceptional cases, with documented evidence of a serious illness, and with approval of the instructor, a missed exam may be made up on the day of the final exam. You should contact the instructor immediately if you are having medical difficulties and will miss an exam for any reason.

In addition to lecture exams, there will be about 10 online homework assignments worth about 14 points each. Late assignments ***will not be accepted.***

Finally, there will be four unannounced quizzes. These will not be difficult and are worth 20 points each. Your lowest quiz will get dropped. The total point breakdown is as follows:

<b>Graded Material</b>	<b>Total Points</b>
Midterm Exams (2)	260
Online Homework (mastering biology)	140
Quizzes	60
Final Exam	250
<b>TOTAL</b>	<b>710</b>

Your final grade will be based on your points out of 710 (e.g., 639/710 = 90%, etc.)

**Final course grades are usually available via Patriot Web within 48 hours of the final exam.**

## WHERE TO GET HELP

If you encounter any difficulties in this course, first see either your lecture instructor, **immediately!** Do not wait until the end of the semester to ask for help in understanding the material in order to improve your grade - by then, it may be too late! Know your instructors' names, office hours, e-mail addresses and phone numbers; then use them! Do not "be afraid" to ask your instructors for help - that is our job!

The Counseling Center is committed to improving academic and personal skills, and offers many workshops and counseling groups throughout the semester.

Make use of the many rich academic and personal opportunities available at Mason!

Lecture Instructor \_\_\_\_\_ Lecture Section \_\_\_\_\_

Office Hours \_\_\_\_\_ Contact \_\_\_\_\_

**Biology 107 SPRING 2019**  
**Lecture Schedule**

<b>Week of:</b>	<b>Lecture Topic</b>	<b>Chapters in Text</b>
Jan 21	Tissues, Homeostasis	20
Jan 28	Digestive System	21
Feb 4	Respiratory System	22
Feb 11	Circulatory System	23
Feb 18	The senses <b>LECTURE EXAM I</b>	29
Feb 25	Immune System	24
Mar 4	Endocrine System/Reproduction	26/27
<b>Mar 11</b>	<b>SPRING BREAK</b>	
Mar 18	Nervous System	28
Mar 25	Nervous system <b>LECTURE EXAM II</b>	
April 1	The Biosphere, Communities and Ecosystems	34, 37
Apr 8	Communities and Ecosystems,	37
Apr 15	Population Ecology	36
Apr 22	Conservation Biology	38
Apr 29	Conservation Biology	38
May 6	Catch-up; Review	

**Final Exams:**

**Section 001 May 16 7:30 - 10:15am**  
**Section 002 May 13 1:30 - 4:15pm**  
**Section 003 May 9 4:30-7:15pm**