Course Approval Form

For instructions:
http://registrar.gmu.edu/facultystaff/catalog-revisions/course/

Action Requested: (definitions available at website above)
[X] Create NEW [ ] Inactivate
[ ] Modify (check all that apply below)

[ ] Title [ ] Credits [ ] Repeat Status [ ] Schedule Type [ ] Prereq/coreq [ ] Restrictions [ ] Grade Mode [ ] Other: _____

Course Level:
[X] Undergraduate [ ] Graduate

College/School: Science **Department:** Biology
Submitted by: Deborah Polayes **Ext:** 3-4543 **Email:** dpolayes@gmu.edu

Subject Code: BIOL **Number:** 107
(Do not list multiple codes or numbers. Each course proposal must have a separate form.)

Effective Term: [X] Fall [ ] Spring [ ] Summer *Year* 2017

Title:
Current
Banner (30 characters max w/ spaces)
New: Intro Biology II Lecture

Fulfills Mason Core Req? (undergrad only)
[X] Currently fulfills requirement
[ ] Submission in progress

Credits: (check one)
[X] Fixed → 3
[ ] Variable → to
[ ] Lec + Lab/Rct→ 0 or

Repeat Status: (check one)
[X] Not Repeatable (NR)
[ ] Repeatable within degree (RD) →
[ ] Repeatable within term (RT) →
Max credits allowed: (required for RT/RD status only)

Grade Mode: (check one)
[X] Regular (A, B, C, etc.)
[ ] Satisfactory/No Credit
[ ] Special (A, B C, etc. +IP)

Schedule Type: (check one)
LEC can include LAB or RCT if linked sections will be offered
[X] Lecture (LEC)
[ ] Lab (LAB)
[ ] Recitation (RCT)
[ ] Internship (INT)
[ ] Independent Study (IND)
[ ] Seminar (SEM)
[ ] Studio (STU)
[ ] Activity (ACT)
[ ] Research (RSC)
[ ] Student Teaching (STC)
[ ] Thesis (THS-798/799)
[ ] Dissertation (DIS-998/999)

Prerequisite(s) (NOTE: hard-coding requires separate Prereq Checking form; see above website):

Corequisite(s):

Restrictions Enforced by System: Major, College, Degree, Program, etc. Include Code(s).

Equivalencies (check only as applicable):
[ ] YES, course is 100% equivalent to _____
[ ] YES, course renumbered to or replaces _____

Catalog Copy (Consult University Catalog for models)

Description (No more than 60 words, use verb phrases and present tense)	**Notes** (List additional information for the course)
Topics include animal (including human) structure, function, homeostatic mechanisms, organ systems, behavior, higher plant systems, and major concepts in ecology	Students are strongly urged to take BIOL 103 prior to BIOL 107. Survey course suitable for any major. May not be taken after BIOL 200-level or above courses have been taken.

Indicate number of contact hours: Hours of Lecture or Seminar per week: 3 Hours of Lab or Studio:
When Offered: (check all that apply) [x] Fall [x] Summer [x] Spring

A

[redacted]

College/School Approval Date

by any other units, the originating department must circulate this proposal for review by
ission. Failure to do so will delay action on this proposal.

e	Unit Approver's Signature	Date

Undergraduate or Graduate [redacted] **roval**

UGC or GC Council Member Provost's Office UGC or GC Approval Date

Course Proposal Submitted to the College of Science Curriculum Committee (COSCC)

The form above is processed by the Office of the University Registrar. This second page is for the COSCC's reference. Please complete the applicable portions of this page to clearly communicate what the form above is requesting.

FOR ALL COURSES (required)
Course Number and Title: BIOL107: Intro Biology II Lecture

Date of Departmental Approval:

FOR INACTIVATED/REINSTATED COURSES (required if inactivating/reinstating a course)

- Reason for Inactivating/Reinstating:

FOR MODIFIED COURSES (required if modifying a course)

- Summary of the Modification:
- Text before Modification (title, repeat status, catalog description, etc.):
- Text after Modification (title, repeat status, catalog description, etc.):
- Reason for the Modification:

FOR NEW COURSES (required if creating a new course)

- Reason for the New Course:
  The other colleges have eliminated the requirement for two laboratory science classes. We already have a course number for the laboratory (BIOL106) so we can offer the lab and the lecture as separate entities to fulfill the need for those how only need one lab course (BIOL103) plus BIOL107 or those that need two BIOL103 and BIOL107/106
- Relationship to Existing Programs:
  This is just the lecture from BIOL104. We are separating the lab from the lecture.
- Relationship to Existing Courses:
  BIOL104 has been taught for many years as a lecture lab course. Now we will separate the lab and the lecture
- Semester of Initial Offering:
  Fall 2017
- Proposed Instructors:
  David Luther
- Insert Tentative Syllabus Below

BIOLOGY 107 INTRO BIOLOGY II Lecture
COURSE SYLLABUS

COURSE COORDINATOR

Dr. D. Luther
e-mail: dluther@gmu.edu

LECTURE INSTRUCTOR

REQUIRED TEXTS

Lecture Text: Campbell, Reece, Taylor, Simon and Dickey. 2014. *Biology: Concepts and Connections*, 8th 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 non laboratory science class. 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 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.

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 AND CLASSROOM BEHAVIOR: 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 lab and 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.

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 phones 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: Three hourly lecture exams will be given, each worth 183 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 to any student under any circumstances.**

Final course grades are usually available via Patriot Web within 48 hours of the final exam. If you wish to have additional information regarding your grade, please provide the instructor with a stamped, self-addressed envelope prior to the final exam, or see the instructor in person after the grading period. **I will not e-mail exam or final course grades**!! In addition to lecture exams, there will be 10 online homework assignments worth 20 points each. The total point breakdown is as follows:

Graded Material	Total Points	Grade
Midterm Exams (3)	550	980 - 1000 = A+
		920 - 979 = A
Online Homework (mastering biology)	200	900 - 919 = A-
		870 - 899 = B+
		820 - 869 = B
Final Exam	250	800 – 819 = B-
		770 - 799 = C+
	1000	700 - 769 = C
		600 - 699 = D

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!

Biology 107 Lecture and Lab Schedule

Week of:	Lecture Topic	Homework Mon7am-Sun11:59pm	Chapters in Text
Jan 23	Tissues, Homeostasis		20
Jan 30	Digestive System	X	21
Feb 6	Respiratory System	X	22
Feb 13	Circulatory System	X	23
Feb 20	Circulatory System **LECTURE EXAM I**		23
Feb 27	Immune System	X	24
Mar 6	Endocrine System	X	26
Mar 13	**SPRING BREAK**		
Mar 20	Nervous System	X	28
Mar 27	Review **LECTURE EXAM II**		
April 3	The Biosphere, Communities and Ecosystems	X	34, 37
Apr 10	Communities and Ecosystems,	X	37
Apr 17	Animal Behavior	X	35
Apr 24	Conservation Biology	X	38
May 1	Catch-up; Review		

Final Exams:

Lecture Instructor _____ Lecture Section _____

Office Hours_____ Contact_____

Lab Instructor _____ Lab Section _____

Office Hours_____ Contact _____