

BSC2011.001 and BSC2011.002: General Biology 2

Department of Biology, College of Science

4 Credit Hours

Instructor Information

Instructor: Dr. Melinda Donnelly

Office Location: Biological Sciences (BIO) Building, room 401A

Virtual Office Hours: Mondays: 10 am to 11 am and Wednesdays: 9 am to 11 am on Chat on Webcourses or Zoom (by appointment)

Appointments outside of posted office hours are available and scheduled by email

Contact Information

Email: Melinda.Donnelly@ucf.edu

All emails will receive a response within 24-48 hours, excluding weekends and holidays

UCF policy requires students to use KnightsMail when contacting faculty, any emails sent from other programs will not receive a response

Email must include the following information...

1. Salutation
2. Your name
3. Include that you are enrolled in Biology II and Section Number

Before emailing me with a question about course policies, you must read the lecture syllabus to find the answer yourself.

Course Information

Term: Fall 2021

Course Number & Section: BSC2011.001 and BSC2011.002

Course Name: General Biology 2

Credit Hours: 4

Class Meeting Times

Section 1: 11:30 AM-12:20 PM

Location: CB2 O201

Section 2: 1:30-2:20 PM

Location: CB2 101

Course Modality: Face to Face (P)

Enrollment Requirements

Course Prerequisites: BSC 2010 (General Biology I) or equivalent course

Course Co-requisites: BSC 2011 Laboratory is a required component of this course

Course Description

BSC 2011 is the continuation of BSC 2010, with an emphasis on problem solving, analysis, synthesis of information, and applying data effectively. This course focuses on organismal anatomy and physiology as it relates to biodiversity, ecology and evolution.

Course Purpose

BSC 2011 (General Biology 2) is the second of a two semester General Biology sequence for science majors. Biology 2 builds on concepts from BSC 2010 to build a foundation of knowledge of the field of biology. This course serves as a pre-requisite for other upper level biology courses and/or for admission requirements for many post-graduate programs.

Course Activities

- Weekly Chapter Readings
- Lectures for Weekly Topics
- Weekly Content Quizzes
- Participation Activities
- Active Learning Activities
- 4 Lecture Exams
- Final Exam (non-cumulative)
- Laboratory
- Extra credit opportunities will be provided at the discretion of the instructor

Student Learning Outcomes

1. Given terms and facts pertaining to evolution, biodiversity, and ecology, students will be able to classify them correctly.
2. Given biological examples, students will be able to correctly differentiate how they relate to evolutionary concepts and theories.
3. Given phylogenetic relationships, students will be able to correctly interpret the level of organisms' relatedness.
4. Given organismal features, students will be able to correctly reconstruct phylogenetic classifications.
5. Given real biological observations, students will be able to correctly implement the concepts of evolution and biodiversity.

6. Given the descriptive characteristics of animals, students will be able to correctly identify distinguishing features of animals in general as well as key features of major animal divisions from simple invertebrates through advanced vertebrates.
7. Given the characteristics of a given ecosystem, students will be able to make connections between biotic and abiotic factors and understand how organisms are linked to their environment as well as each other through trophic level interactions.

Course Materials and Resources

Required Materials/Resources

Textbook: The required textbook for this course OpenStax Biology 2e is available for free online.

Print ISBN 1947172514

Digital ISBN 1947172522

www.openstax.org/details/books/biology-2e

Since this textbook is an Open Educational Resource (OER), specific sections of the text, relevant to this course, have also been integrated into Webcourses Modules. Students are highly encouraged to utilize this curated version of the online text in order to focus on the necessary content in an efficient manner.

Students can also access the full textbook in one of the following ways:

Online web view, ([Links to an external site.](#)) for free -- the responsive design works on any device.

Download the PDF ([Links to an external site.](#)) for free -- it is recommended that you download the PDF in case of technical issues with the publisher website.

Purchase the book on iBooks ([Links to an external site.](#)) at a relatively low cost.

Purchase a print version ([Links to an external site.](#)) at a relatively low cost via the campus bookstore or from OpenStax on Amazon.com.

Internet Access and Webcourses

Webcourses will be used for most aspects of this class, including class related material and communication:

- Lecture Syllabus
- Weekly Modules with Textbook Reading Assignments
- Lecture Slides
- Exam review material
- Weekly Quizzes, Participation Assignments
- Announcements
 - To ensure that you receive important announcements, you are required to have your announcements setting turned on. You are responsible for information sent to students via Webcourses Announcements.
- Grades for all course components

Assessment and Grading Procedures

Assessment	Percentage of Grade
On-Line Participation	5%
Active Learning Activities	5%
Weekly Quizzes	5%
Three highest scoring lecture exams (15% each, drop lowest grade of lecture exams)	45%
Final Exam (Exam 5, cannot be dropped)	15%
Laboratory	25%
Total	100%

Final letter grades for the semester will use the following grading scale:

Letter Grade	Percent
A	90-100
B	80-89
C	70-79
D	60-69
F	59 or below

Semester grades will be based on the grading scheme above. Overall semester grades will NOT be rounded. In other words, a 79.99 is a "C." With so many students in this course, we strive for consistency and fairness. For this reason, there will be no additional assignments or end-of-semester extra credit given. There will be no "retakes" on any exam, assignment, or laboratory exercise.

*In compliance with FERPA, no grades will be given via email or phone

Students wishing to discuss their grades must request an appointment with Dr. Donnelly by email.

Grades will not be discussed with any individual (even parents) other than the student.

Course Activity Details

Attendance Verification for Financial Aid Students

Faculty are required to document student attendance/participation in this course so that financial aid monies are disbursed appropriately and in a timely manner.

To document your attendance and participation in this course you are required to complete the Academic Engagement Activity - Syllabus Quiz in Webcourses no later than Friday, August 27th by 5 pm.

Failure to complete this quiz will result in the delay of your financial aid funds

This quiz is related to the lecture syllabus. Your score on this quiz will not count towards your grade in this course, but students who complete this quiz by 5 pm on August 27th will receive 1 bonus point (1%) towards Exam 1.

On-Line Participation Grade (5% of semester grade)

Your On-Line Participation grade will be evaluated based on completion of on-line activities and discussion postings related to weekly modules. At the end of the semester, the lowest participation grade will be dropped.

All participation activities will be on-line and attendance in lecture is not mandatory and there are no participation points associated with lecture attendance.

Contact Dr. Donnelly if additional participation activities are missed; documentation may be required at the discretion of instructor for additional excused participations.

Active Learning (5% of semester grade)

Will use Webcourses quizzes for submission and grading- attendance of lecture for associated Active Learning Exercises is not mandatory to receive credit for Active Learning assignments.

Assignment information will be available on Webcourses one week before scheduled Active Learning Exercises lecture (see Course Schedule for dates). The lecture associated with each Active Learning Exercises will go over the material and questions and provide opportunities for students to ask questions.

The lowest scoring assignment will be dropped

Weekly Quizzes (5% of semester grade)

There will be nine online quizzes given through Webcourses, one per week except for any week an exam is being given.

Each quiz will consist of 10 questions based on module content.

These quizzes are intended to help you learn along the way. The quizzes are open-book and un-timed but you only have ONE (1) attempt to take the quiz.

Your lowest (1) quiz grade will be dropped from your final grade.

Quizzes will be available to students for one week, opening on Mondays and closing at 11:59PM the following Monday.

Important: There are NO makeups or excused absences for missed quizzes (unless a student can provide documentation affecting them longer than 1 week, e.g. extended hospitalization, sequestered jury duty, etc. that prevented computer access).

If you miss taking a quiz, you will receive a zero (0) for that quiz's grade. Therefore, do NOT wait until the last minute to take the quiz.

Technical or internet difficulties will NOT be accepted as an excuse for missing quizzes.

Students are responsible for knowing the quiz due dates which can be found on Webcourses.

Lecture Exams Details (45% of semester grade)

All Exams will be given electronically through Webcourses using Lockdown Browser during the scheduled lecture time for your section.

Four multiple choice exams will be given throughout the semester

Exam 1: Wednesday, Sept. 15th

Exam 2: Friday, October 1st

Exam 3: Friday, October 22nd

Exam 4: Friday, November 12th

The lowest scoring lecture exam will be dropped

The three highest scoring exams are worth 15% each of final grade

Exam content is based on material covered in modules.

Exams are open notes and open book, however, Lockdown browser will be required when taking the exam.

Review the information about LockDown Browser and download at:

[https://cdl.ucf.edu/support/webcourses/respondus/download/Links to an external site.](https://cdl.ucf.edu/support/webcourses/respondus/download/Links%20to%20an%20external%20site)

Once installed, test your browser with this practice quiz: LockDown Browser Practice Quiz- Requires Respondus LockDown Browser

Exam Protocol

Failure to take the exam in the correct lecture section during the scheduled time will result in a zero (0) grade for the exam

Exams will start on Webcourses promptly at your scheduled class time (Section 1: 11:30-12:20 pm; Section 2: 1:30-2:30 pm) and you will have 50 minutes to complete.

See your schedule in myUCF to determine your registered section number.

Any students signing in late to the exam must complete the exam in the time remaining

Students must take lecture exams during the scheduled lecture section in which they are enrolled

Final Exam Details (15% of semester grade)

The final exam will be given electronically on Webcourses using lockdown browser and must be completed during your scheduled lecture section:

Section 1: Final Exam will be on Wednesday, Dec. 8th from 10 am to 12:50 pm.

Section 2: Final Exam will be on Monday, Dec. 6th from 1 pm to 3:50 pm.

There are no alternative final exam times

Missing the final exam due to oversleeping, not being aware of the day/time, etc. will result in a zero score.

The final exam begins promptly at the scheduled start time

Students logging in late must complete the exam in the time remaining

Students who miss their final exam time for unexcused reasons are not guaranteed a make-up opportunity. If such an opportunity is provided, the final exam score will be penalized 10%.

The final exam will be not cumulative and covers material from the last modules of the semester.

Exams are open notes and open book, however, Lockdown browser will be required when taking the exam.

The final exam is required and cannot be dropped

Laboratory Grade Details (25% of semester grade)

There is a REQUIRED laboratory component to BSC 2011C.

All detailed information concerning the laboratory will be covered in the separate laboratory syllabus found in your laboratory section's Webcourses.

Please direct all lab-related questions and grading to your GTA. Dr. Donnelly can NOT answer lab content or lab logistic questions.

Make-up Exams and Assignments

Per university policy, you are allowed to submit make-up work (or an equivalent, alternate assignment) for authorized university-sponsored activities, religious observances, or legal obligations (such as jury duty). If this participation conflicts with your course assignments, I will offer a reasonable opportunity for you to complete missed assignments and/or exams. The make-up assignment and grading scale will be equivalent to the missed assignment and its grading scale. In the case of an authorized university activity, it is your responsibility to show me a signed copy of the Program Verification Form for which you will be absent, prior to the class in which the absence occurs. Other absences may require documentation to be excused at the instructor's discretion. In any of these cases, please contact me ahead of time to notify me of upcoming needs.

Students must notify their instructor in advance if they intend to miss class for a religious observance. For more information, see the UCF policy at <http://regulations.ucf.edu/chapter5/documents/5.020ReligiousObservancesFINALJan19.pdf>.

Consult the latest Undergraduate or Graduate catalog for regulations and procedures regarding grading such as Incomplete grades, grade changes, and grade forgiveness.

Course Schedule

See the complete Course Schedule for dates and deadlines.

Weekly modules will open on Mondays (with a few exceptions) and include lecture slides for that week's classes, textbook readings, and links to on-line resources associated with the topics included in the textbook chapters. The modules are designed for you to complete at your own pace over the course of the week. On all weeks except exam weeks, quizzes will open on Monday with the module information and be due by 11:59 pm on the following Monday. Quizzes will test knowledge of material presented in the weekly module and associated textbook readings.

Any changes to the schedule will be announced to the class through Webcourses.

Date	Lecture Topic	Chapter	Weekly Modules	Quiz due date
8/23/2021	Class Introduction		Module 0: Getting Started	
8/25/2021	Introduction to Evolution	18	Module 1: Introduction to Evolution	
8/27/2021	Origin of Species	18		Academic Activity Quiz (5 pm)
8/30/2021	Evolution of Populations	19	Module 2: Evolution of Populations	Quiz 1 Due
9/1/2021	Population Genetics	19		
9/3/2021	Hardy-Weinberg	19		
9/6/2021	No Class: Labor Day Holiday		Module 3: Organizing Life on Earth	
9/8/2021	Introduction to Phylogenies	20		Quiz 2 Due
9/10/2021	Interpreting Phylogenies	20		
9/13/2021	Active Learning 1	18-20		Active Learning 1 Quiz Due
9/15/2021	Exam 1	18-20		

9/17/2021	Viruses	21	Module 4: Viruses and Prokaryotes	
9/20/2021	Prokaryotes	22		
9/22/2021	Introduction to Eukaryotic Cells	23	Module 5: Protists and Fungi	
9/24/2021	Protists	23		
9/27/2021	Fungi	24		Quiz 3 Due
9/29/2021	Active Learning 2	21-24		Active Learning 2 Quiz Due
10/1/2021	Exam 2	21-24		
10/4/2021	Evolution of Plants	25	Module 6: Seedless Plants	
10/6/2021	Seedless Plants_ Part 1			
10/8/2021	Seedless Plants_ Part 2			
10/11/2021	Evolution of Seed Plants	26, 32	Module 7: Seed Plants	Quiz 4 Due
10/13/2021	Seed Plants_ Part 1			
10/15/2021	Seed Plants_ Part 2			
10/18/2021	Plant Body	30	Module 8: Plant Structure and Function	Quiz 5 Due
10/20/2021	Active Learning 3	25, 26, 30, 32		Active Learning 3 Quiz Due
10/22/2021	Exam 3	25, 26, 30, 32		
10/25/2021	Introduction to Animals	27-28	Module 9: Animal Diversity and Invertebrates	
10/27/2021	Invertebrates- Part 1			
10/29/2021	Invertebrates- Part 2			
11/1/2021	Introduction to Vertebrates	29	Module 10: Vertebrates	Quiz 6 Due
11/3/2021	Vertebrates- Part 1			
11/5/2021	Vertebrates- Part 2			
11/8/2021	Animal Form and Function	33	Module 11: Animal Form & Function	Quiz 7 Due

11/10/2021	Active Learning 4	27-29, 33		Active Learning 4 Quiz Due
11/12/2021	Exam 4	27-29, 33		
11/15/2021	Introduction to Ecology	44	Module 12: Ecology & Biosphere	
11/17/2021	Biosphere_Part 1			
11/19/2021	Biosphere_Part 2			
11/22/2021	Population and Community Ecology	45	Module 13: Population and Community Ecology	Quiz 8 Due
11/24/2021	No Class: Thanksgiving Holiday			
11/26/2021	No Class: Thanksgiving Holiday			
11/29/2021	Ecosystems	46	Module 14:Ecosystems and Conservation Biology	
12/1/2021	Conservation Biology	47		
12/3/2021	Active Learning 5 *Last Day of Classes	44-47		Quiz 9 and Active Learning 5 Quiz Due
12/6/2021	Section 2 Final Exam: 1 pm to 3:50 pm		Finals Week	
12/8/2021	Section 1 Final Exam: 10 am to 12:50 pm			
12/10/2021				

COVID-19 Information

Based on current CDC guidelines, UCF recommends all individuals to wear masks when indoors on campus, including attending lectures and office hours, for the protection of yourselves and those around you.

Vaccinations are available from UCF Student Health Services and many other local pharmacies. For more vaccine information, visit the UCF Vaccination Information page.

Students who believe they may have a COVID-19 should seek medical assistance and testing and contact UCF Student Health Services (407-823-2509) so proper contact tracing procedures can take place. Students should not come to campus if they are ill, are experiencing any symptoms of COVID-19, have tested positive for COVID, or if anyone living in their residence has tested positive or is sick with COVID-19 symptoms. CDC guidance for COVID-19 symptoms is located here: (<https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html>)

Students should contact their instructor(s) as soon as possible if they miss class for any illness reason to discuss reasonable adjustments that might need to be made.

COVID-19 guidelines can change based on CDC and governmental public health announcements and course adjustments may be needed in order to meet safety guidelines. All course changes will be announced through Webcourses.

In Case of Faculty Illness...

If the instructor falls ill during the semester, there may be changes to this course, including having a backup instructor take over the course or switch to temporary on-line accommodations. Please look for announcements on Webcourses@UCF for any alterations to this course.

University Services and Resources

Academic Services and Resources

A list of available academic support and learning services is available at UCF Student Services. Click on "Academic Support and Learning Services" on the right-hand side to filter.

Non-Academic Services and Resources

A list of non-academic support and services is also available at UCF Student Services. Click on "Support" on the right-hand side to filter.

If you are a UCF Online student, please consult the UCF Online Student Guidelines for more information about your access to non-academic services.

During your UCF career, you may experience challenges including struggles with academics, finances, or your personal well-being. UCF has a multitude of resources available to all students. Please visit UCFcares.com if you are seeking resources and support, or if you are worried about a friend or classmate. Free services and information are included for a variety of student concerns, including but not limited to alcohol use, bias incidents, mental health concerns, and financial challenges. You can also e-mail ucfcares@ucf.edu with questions or for additional assistance. You can reach a UCF Cares staff member between 8 a.m. and 5 p.m. by calling 407-823-5607. If you are in immediate distress, please call Counseling and Psychological Services to speak directly with a counselor 24/7 at 407-823-2811, or please call 911.

Policy Statements

The University of Central Florida considers the diversity of its students, faculty, and staff to be a strength and critical to its educational mission. UCF expects every member of the university community to contribute to an inclusive and respectful culture for all in its classrooms, work environments, and at campus events. Dimensions of diversity can include sex, race, age, national origin, ethnicity, gender identity and expression, intellectual and physical ability, sexual orientation, income, faith and non-faith perspectives, socio-economic class, political ideology, education, primary language, family status, military experience, cognitive style, and communication style. The individual intersection of these experiences and characteristics must be valued in our community.

Academic Integrity

Students should familiarize themselves with UCF's Rules of Conduct. According to Section 1, "Academic Misconduct," students are prohibited from engaging in:

Unauthorized assistance: Using or attempting to use unauthorized materials, information or study aids in any academic exercise unless specifically authorized by the instructor of record. The unauthorized possession of examination or course-related material also constitutes cheating.

Communication to another through written, visual, electronic, or oral means: The presentation of material which has not been studied or learned, but rather was obtained through someone else's efforts and used as part of an examination, course assignment, or project.

Commercial Use of Academic Material: Selling of course material to another person, student, and/or uploading course material to a third-party vendor without authorization or without the express written permission of the university and the instructor. Course materials include but are not limited to class notes, Instructor's PowerPoints, course syllabi, tests, quizzes, labs, instruction sheets, homework, study guides, handouts, etc.

Falsifying or misrepresenting the student's own academic work.

Plagiarism: Using or appropriating another's work without any indication of the source, thereby attempting to convey the impression that such work is the student's own.

Multiple Submissions: Submitting the same academic work for credit more than once without the express written permission of the instructor.

Helping another violate academic behavior standards.

For more information about Academic Integrity, students may consult The Center for Academic Integrity.

For more information about plagiarism and misuse of sources, see "Defining and Avoiding Plagiarism: The WPA Statement on Best Practices".

Responses to Academic Dishonesty, Plagiarism, or Cheating

Students should also familiarize themselves with the procedures for academic misconduct in UCF's student handbook, The Golden Rule. UCF faculty members have a responsibility for students' education and the value of a UCF degree, and so seek to prevent unethical behavior and when necessary respond to academic misconduct. Penalties can include a failing grade in an assignment or in the course, suspension or expulsion from the university, and/or a "Z Designation" on a student's official transcript

indicating academic dishonesty, where the final grade for this course will be preceded by the letter Z. For more information about the Z Designation, see <http://goldenrule.sdes.ucf.edu/zgrade>.

Course Accessibility Statement

The University of Central Florida is committed to providing access and inclusion for all persons with disabilities. This syllabus is available in alternate formats upon request. Students with disabilities who need specific access in this course, such as accommodations, should contact the professor as soon as possible to discuss various access options. Students should also connect with Student Accessibility Services (Ferrell Commons, 7F, Room 185, sas@ucf.edu, phone (407) 823-2371). Through Student Accessibility Services, a Course Accessibility Letter may be created and sent to professors, which informs faculty of potential access and accommodations that might be reasonable.

Accommodations may need to be added or adjusted should this course shift from an on-campus to a remote format due to changes in COVID-19 guidelines. Students with disabilities should speak with their instructor and should contact sas@ucf.edu to discuss specific accommodations for this or other courses.

Campus Safety Statement

Emergencies on campus are rare, but if one should arise during class, everyone needs to work together. Students should be aware of their surroundings and familiar with some basic safety and security concepts.

In case of an emergency, dial 911 for assistance.

Every UCF classroom contains an emergency procedure guide posted on a wall near the door. Students should make a note of the guide's physical location and review the online version at http://emergency.ucf.edu/emergency_guide.html.

Students should know the evacuation routes from each of their classrooms and have a plan for finding safety in case of an emergency.

If there is a medical emergency during class, students may need to access a first-aid kit or AED (Automated External Defibrillator). To learn where those are located, see <https://ehs.ucf.edu/automated-external-defibrillator-aed-locations>.

To stay informed about emergency situations, students can sign up to receive UCF text alerts by going to <https://my.ucf.edu> and logging in. Click on "Student Self Service" located on the left side of the screen in the toolbar, scroll down to the blue "Personal Information" heading on the Student Center screen, click on "UCF Alert", fill out the information, including e-mail address, cell phone number, and cell phone provider, click "Apply" to save the changes, and then click "OK."

Students with special needs related to emergency situations should speak with their instructors outside of class.

To learn about how to manage an active-shooter situation on campus or elsewhere, consider viewing this video (<<https://youtu.be/NIKYajEx4pk>>).

Deployed Active Duty Military Students

Students who are deployed active duty military and/or National Guard personnel and require accommodation should contact their instructors as soon as possible after the semester begins and/or after they receive notification of deployment to make related arrangements.

Copyright

This course may contain copyright protected materials such as audio or video clips, images, text materials, etc. These items are being used with regard to the Fair Use doctrine in order to enhance the learning environment. Please do not copy, duplicate, download or distribute these items. The use of these materials is strictly reserved for this online classroom environment and your use only. All copyright materials are credited to the copyright holder.

Third-Party Software and FERPA

During this course you might have the opportunity to use public online services and/or software applications sometimes called third-party software such as a blog or wiki. While some of these could be required assignments, you need not make any personally identifying information on a public site. Do not post or provide any private information about yourself or your classmates. Where appropriate you may use a pseudonym or nickname. Some written assignments posted publicly may require personal reflection/comments, but the assignments will not require you to disclose any personally identity-sensitive information. If you have any concerns about this, please contact your instructor.