

# BSC 2010 – Integrated Principles of Biology I

## Class Meetings

Class Number 11769: M,W,F | Period 2 (8:30 AM - 9:20 AM) Room: NRN 1020

Class Number 11770: M,W,F | Period 3 (9:35 AM - 10:25 AM) Room: NRN 1020

Class Number 11771: M,W,F | Period 6 (12:50 PM - 1:40 PM) Room: NRN 1020

Class Number 23669 (Honors): M,W,F | Period 3 (9:35 AM - 10:25 AM) Room: NRN 1020  
F | Period 4 (10:40 AM - 11:30 AM) Room: NRN 1020

Class Number 23670 (Honors): M,W,F | Period 6 (12:50 PM - 1:40 PM) Room: NRN 1020  
F | Period 7 (1:55 PM - 2:45 PM) **Room: LIT 0113**

## Instructors

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## Expectations

Each student is solely responsible for reading and following the instructions, guidelines, and schedules in this syllabus and on the course webpage, or announced in class. Not having read the information in this syllabus or in instructor announcements will not constitute an excuse for missing an assignment, exam, or other assessment.

**Please set your preferences in Canvas so that you receive timely notifications of course announcements and other information.**

## Course Resources

### BSC Laboratory Courses

The BSC laboratory courses (BSC 2010L and BSC 2011L) are managed separately from the lecture courses. Please see the BSC Website (<http://www.bsc.ufl.edu>) for more information on the laboratory courses.

## Textbook & Online Resources/Homework

### A. Textbook

*Principles of Life*, 3<sup>rd</sup> Edition, by Hillis, Price, Hill, Hall, & Laskowski  
W.H. Freeman (publisher)



### B. Online Resources/Homework

*Launchpad* is an online assignments and tutorial system from the textbook publisher. It is required for this course and includes an ebook with purchase. Each new copy of *the Principles of Life* textbook comes automatically packaged with Launchpad. If you purchase a used textbook you will still need to purchase access to Launchpad. **You are required to have access to Launchpad for the ENTIRE course. It is your responsibility to ensure that your access DOES NOT expire before the end of the semester.**

Instructions on correctly registering for LaunchPad will be available on the Canvas course site once the semester has started. Please wait for these instructions **before** registering for LaunchPad; incorrect registration on LaunchPad may result in receiving zero points for all LaunchPad assignments.

### C. Purchase of Textbook and LaunchPad Access

Please note that this course participates in the UF All Access program. Students will have a few options to gain access to the textbook and LaunchPad for Principles of Life when classes begin:

- **Option 1 - RECOMMENDED** - Students will have the choice to “opt-in” for a limited time to receive access to LaunchPad for a reduced price and pay for these materials through their student account. The following link will take you to where you can “opt-in” to receive discounted course materials once logged in with your Gatorlink credentials: <https://www.bsd.ufl.edu/G1CO/IPay1f/start.aspx?TASK=INCLUDED>
- **Option 2** – Purchase a standalone code through the UF Bookstore. Both options provide access to the same materials.
- There are also current versions of the textbook on reserve at the Marston Science Library. Visit the Reserve Materials area to check out these copies. You will still need to purchase LaunchPad.

### D. Classroom Response System (CLICKER)

We will use the Learning Catalytics (LC) Classroom Response System (CRS) for quiz questions during class (<https://learningcatalytics.com/courses>). This course is listed as **BSC 2010 Fall 2021 Integrated Principles of Biology 1**. LC allows students to use a cell phone, laptop, tablet, or smartphone to participate in class.

Cost:

6 month access: \$12

12 month access: \$20

**Option 2** – If you “opt-in” to receive access to LaunchPad, then the Learning Catalytics access code will be included.

### E. Course Website (Canvas)

Class material including the syllabus, discussion readings, and problem sets, exam results, some lecture slides and other information related to the course will be posted on the course Canvas website (<http://lss.at.ufl.edu>). The course is found under “E-Learning in Canvas”. You are responsible for **all** announcements made in lecture and/or

posted on the course website for this class. For help with Canvas, call the UF Computing Help Desk at 352-392-4357, or visit the Canvas support website: <https://lss.at.ufl.edu/help.shtml>.

## Course Goals and Objectives

The primary goal of this course is to establish a coherent foundation of knowledge in biology and to prepare students for comprehension in advanced biology courses and science in general. Fundamental concepts discussed include the scientific methods by which we come to know things in science, the chemical composition and processes that make up all life, genetic processes and the means of inheritance of traits, the mechanisms and processes of natural selection, and adaptation and evolution of life on Earth. An additional course goal is to develop critical thinking skills for development of reasoned thought and for evaluation of life experiences.

Objectives of the course will be achieved if, by its conclusion, students can:

- Describe a scientific hypothesis and identify testable predictions that logically follow
- Compare and contrast the components of prokaryotic and eukaryotic cells and the molecular processes driving cellular structure and functions
- Outline the process and molecular components of key metabolic pathways
- Describe the relationship between genotype and phenotype
- Predict the RNA and protein sequences that will be transcribed and translated from a given gene
- Predict the immediate and long term effects of specific gene mutations
- Discuss the evidence that all living things are descended from a common ancestor and have changed and diversified into species through time
- Describe the primary mechanisms of evolutionary change
- Identify sources of genetic variation in populations and explain how this can be shaped in the presence of natural selection and other evolutionary forces
- Interpret and evaluate phylogenetic trees and use them to distinguish evolutionary predictions
- Outline major fundamental events in the history of life on Earth, including changes to biogeochemical cycles connected with major evolutionary transitions

## General Education Objectives for Biological Sciences

Biological science courses provide instruction in the basic concepts, theories and terms of the scientific method in the context of the life sciences. Courses focus on major scientific developments and their impacts on society, science and the environment, and the relevant processes that govern biological systems. Students will formulate empirically testable hypotheses derived from the study of living things, apply logical reasoning skills through scientific criticism and argument, and apply techniques of discovery and critical thinking to evaluate outcomes of experiments.

The General Education objectives and the associated Student Learning Outcomes for Biological Sciences are achieved through lectures, in class discussion, questions embedded in lectures, and online activities and exercises. The learning objectives and SLOs are further reinforced by inquiry-based and active-learning exercises in the companion laboratory course, BSC 2010L. In particular, the companion lab expands upon development and testing of specific hypotheses.

## General Education Student Learning Outcomes

The general education student learning outcomes (SLOs) describe the knowledge, skills and attitudes that students are expected to acquire while completing a general education course at the University of Florida. The SLOs fall into three categories: **content**, **communication** and **critical thinking**. **Every general education course must address all three SLOs.** Note that the subject [area objectives](#) (detailed above) describe the context within which the SLOs are achieved

Category	Institutional Definition	Institutional SLO
<b>CONTENT</b>	Content is knowledge of the concepts, principles, terminology and methodologies used within the discipline.	Students demonstrate competence in the terminology, concepts, methodologies and theories used within the discipline.
<b>COMMUNICATION</b>	Communication is the development and expression of ideas in written and oral forms.	Students communicate knowledge, ideas, and reasoning clearly and effectively in written or oral forms appropriate to the discipline.
<b>CRITICAL THINKING</b>	Critical thinking is characterized by the comprehensive analysis of issues, ideas, and evidence before accepting or formulating an opinion or conclusion.	Students analyze information carefully and logically from multiple perspectives, using discipline specific methods, and develop reasoned solutions to problems.

To assess student performance in meeting these student learning outcomes for this course, students are evaluated by a variety of instruments throughout the course: three exams during the semester, daily graded PlayPosit questions used to assess comprehension and reasoning, and weekly graded online activities, assessments and LaunchPad assignments. Student Learning Outcomes are further assessed in BSC 2010L, the companion lab course. For example, the Communication SLO is assessed in graded written assessments and in oral presentations in the lab. In combination, BSC 2010 and BSC 2010L provide assessments of all categories of the General Education Student Learning Outcomes.

## Assessments and Grading

### 1. Exams

There will be three "midterm" exams, but no cumulative "final" exam. The midterm exams will be administered by assembly at the university established assembly exam times (8:30 pm). Your assembly exam room will be assigned to you at least 24 hours prior to the exam. Each exam will cover material from lecture, the online discussions, and the assigned reading in the textbook. The exams will not be cumulative. Each exam will be worth 20% of the course grade. All exams will be multiple-choice and machine graded. Answer sheets will be provided and must be filled in using a #2 or a softer pencil. Each student must take the exam during their assigned exam time. Each student must bring their Gator ID to class on exam days. No student will be allowed to start an exam after the first student to complete an exam leaves the classroom.

All exams and answer sheets will be collected at the end of the exam period. No additional time will be given to complete an exam if you arrive late. Please be aware that filling in the scantron sheets is part of the exam; no extra time at the end of the class period will be given for filling out the scantron sheets.

### A. Exam Curves

If necessary, exams MAY be curved using the following approach: The top 3% of the scores will be averaged, and the difference from 100 points will be added to each exam score.

### B. Exam Review

Exams will be available for review by appointment for one week following the posting of exam scores on Canvas; specific times for exam review will be announced following each exam. Exams will not be available for review after the semester has ended.

### C. Make-up Exams

No make-up exams will be given without prior permission or documentation of illness. Students that will be missing an exam due to a pre-arranged university-approved excused absence (sports, etc.) should let the instructor know a **minimum of two weeks in advance**. In case of illness or personal emergency on exam day, students must submit documentation to the Dean of Students office (P202 Peabody Hall, dsocares@dso.ufl.edu) and request an instructor notification to be sent. These notes must be received within five business days after the exam.

## 2. Online Assignments (*LaunchPad*)

As part of BSC 2010, you are required to complete online assignments administered through the *LaunchPad* site that will account for 24% of your overall grade. The schedule with assignment due dates is at the end of this document. You are expected to work by yourself on the assignments and cheating will not be tolerated.

### A. Setting Up Your Account

**You must set up your *Launchpad* account through Canvas. Please see the Canvas page in order to do this correctly. For instructions for LaunchPad registration, please see Canvas page *LaunchPad Registration Instructions*. You must use your Gatorlink (@ufl.edu) email address, which will be your username.** Using an email address other than your UFL email address will result in NO CREDIT received for assignments administered through Launchpad. This cannot be changed after registration; be sure to register correctly.

**NOTE:** if you already purchased *Launchpad* access in a different semester, you can log in using your existing username, which should be your Gatorlink email address. You will then be asked to provide your UFID number. If you have any questions or problems setting up your account, please contact Technical Support (#5, below). Technical support will need a technical support incident ID if you continue to have trouble, so be sure to save that ID when you report your issue.

### B. Grading of Online Exercises

There are several different types of assignments that students will have to complete:

- **Quizzes:** students will be graded based on the number of questions answered correctly out of the total number of questions on the FIRST quiz submission.
- **All other assignment types (activities, tutorials, etc.):** students will receive full credit upon completion.

Your grades on assignments and their status (e.g., complete, or due in x days) can be viewed in Canvas. The Launchpad home page is NOT a reliable way to determine which assignments remain to be completed. There are many other resources available on *LaunchPad* to help you study material from your textbook, such as Diagnostic quizzes, Flashcards, Interactive chapter summaries, etc. Items that are NOT listed in the Gradebook will not be graded, but we still strongly encourage you to use them to help you study.

### C. Important information about pace

Some assignments may have a set time limit, so make sure you have time to devote to that assignment before you begin. Once assigned, assignments are available online at all times, from the start of the given unit up until the deadline. It is especially important not to wait until just before the deadlines to complete *LaunchPad* assignments; problems usually happen at the last minute.

The assignments have been listed in an order that complements the lecture, and we recommend either going over the material for a given chapter:

- before the lecture, which may help you understand the lecture in greater detail, or
- after each lecture to help reinforce the material and prepare for the exam.

You can always go back and re-do the assignments after you have submitted them for a grade, as a study aid.

### D. Due Dates

Note that all due dates for assignments are clearly posted in the LaunchPad Gradebook and Calendar and reflect the most up-to-date information. The deadline for assignments is 11:55 p.m. on the day stated on the lecture schedule. **All assignments must be completed by the stated due date and time for credit. There are NO make-ups available for *LaunchPad* assignments.**

Extensions for LaunchPad assignment sets will only occur in extreme circumstances. A Dean of Students note verifying documentation of illness or a personal matter must be provided for at least five of the seven days of the week of the assignment's deadline for accommodations to be considered.

**Extensions will NOT be given because of technical or personal issues that occur within 24 hours of the assignment deadline.**

### E. Technical Issues

**For help with *LaunchPad* technical issues, contact *LaunchPad* Technical Support:**

- Phone: 1 (800) 936-6899 (phone)
- Online support form: <http://support.bfwpub.com/supportform/form.php?View=contact>

Tech Support Hours (all times EST)

- Monday – Thursday, 9:00 AM – 3:00 AM
- Friday, 9:00 AM – 11:00 PM
- Saturday, 11:30 AM – 8:00 PM
- Sunday, 11:30 AM – 11:30 PM

If there is a technical problem with accessing *LaunchPad* or a particular assignment within *LaunchPad*, you must contact *LaunchPad* technical support **FIRST, at least 2 days before the deadline. LaunchPad tech support is the only one who can fix technical issues with the site.** Then, contact the TA at least 2 days prior to the deadline, so appropriate steps can be taken to fix the issue.

### 3. In-Class Learning Catalytic Questions

Students will receive up to 16% of the total course points (5.3% for each unit) for participation in the Learning Catalytics questions, which will be delivered during lecture. The points earned will reflect the proportion of LC questions answered correctly in class. Each question posed will be scored as 0.75 LC points for a correct answer with an additional 0.25 LC points for participation. For each course lecture unit, full in-class quiz credit (5.33% course points) will be awarded to all students achieving 70% of the total possible LC points from that unit; those achieving less than 70% will receive course points in proportion to their achieved LC points, and scaled to 70%. (For example, if a student earns 50% of the total LC points, they will receive  $0.5/0.75 = 0.666$  of the 5.3% = 3.55% of the total points for that unit).

Accommodations for extended time on Learning Catalytics or use of accommodations for disability related absences requiring make-up of Learning Catalytics questions will be made only with the appropriate documentation from the DRC. These accommodations are required to be discussed with each faculty member before the beginning of each unit. Accommodations cannot be applied retroactively, at the end of the semester.

Make up of Learning Catalytics points will only occur in extreme circumstances. A Dean of Students note verifying documentation of illness or a personal matter causing absences for at least five days within a single unit must be received in order for accommodations to be considered. Even with such documentation, accommodation is not guaranteed. It is the student's responsibility to regularly check (i.e., daily or weekly) their gradebook in LC to ensure that their submissions were correctly received, and to contact LC support to resolve any issues with submissions not being properly recorded in the LC gradebook in a timely manner.

### 4. Extra Credit

Each instructor will offer exactly 2 points of extra credit, which will apply to the appropriate exam, post curve. The extra credit will be based on the response rate for the course evaluations for each unit. If 80% of the enrolled students respond, then everyone gets 1 point of extra credit. If 85%, then 1.5 points, and if 90%, then 2 points.

**There will be no extra credit tailored to individual students. There will be NO opportunities to make up extra credit.**

### 5. Grading Summary

Assessment		Available Points	Weight	
Exams	Exam 1	100	20%	60%
	Exam 2	100	20%	
	Exam 3	100	20%	
LaunchPad	Unit 1	Variable	8%	24%
	Unit 2	Variable	8%	
	Unit 3	Variable	8%	

<b>Learning Catalytics Questions</b>	Unit 1	Variable	5.33%	16%
	Unit 2	Variable	5.33%	
	Unit 3	Variable	5.33%	

Those students enrolled in the honors section of this course will receive points weighted as 10% of their overall grade from participation in an additional weekly discussion.

All grades will be posted on Canvas (in terms of course points, i.e., the point scheme above), and it is the responsibility of the student to check their grades on Canvas gradebook and make sure they match their grades on *LaunchPad* and *PlayPosit*. **If there is a discrepancy you must let us know within ONE week of the grade being posted on Canvas gradebook.**

Minimum grade cutoffs are listed below. Because each exam may be curved individually (see *Exam Curves* above), **the scores for the course as a whole will not be curved** (i.e. these grade cutoffs will not be lowered) except under extremely rare circumstances (i.e., unless we tell you otherwise these cutoffs will not be lowered, so do not ask). However, these cutoffs will not be raised; in other words, if you receive 90% of the possible points, you are guaranteed to earn an A grade. **Final scores will NOT be rounded** (i.e., 89.99% is not 90%).

Point Range (%)	Letter Grade
≥ 90.00	A
≥ 86.66	A–
≥ 83.33	B+
≥ 80.00	B
≥ 76.66	B–
≥ 73.33	C+
≥ 70	C
≥ 66.66	C–
≥ 63.33	D+
≥ 60	D
≥ 56.66	D–
< 56.66	E

Note that the current UF policy for assigning grade points is available at the following undergraduate catalog web page: <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.



## 6. Special Treatment

Please do not request individual special treatment regarding grading at the end of the semester; **we do not adjust grades for individuals for any reason nor are grades “rounded up”**. Plan to do well on all exams and other assessments from the beginning of the semester; if you are having difficulty in the class, please let your instructors know *before* the exams rather than after.

## Other Considerations

### Academic Honesty

All students registered at the University of Florida have agreed to comply with the following statement:

*“I understand that the University of Florida expects its students to be honest in all their academic work. I agree to adhere to this commitment to academic honesty and understand that my failure to comply with this commitment may result in disciplinary action up to and including expulsion from the University.”*

In addition, on all work submitted for credit the following pledge is either required or implied:

*“On my honor I have neither given nor received unauthorized aid in doing this assignment.”*

Any acts of cheating, plagiarism, or other forms of academic dishonesty will result in, at minimum, a 0 grade for the assignment, test, or quiz. Sharing information about tests and quizzes with students in other sections who have not yet taken the exam or quiz, or posting on social media information about tests and quizzes that other sections have not yet taken, is a serious act of academic dishonesty. If you witness any instances of academic dishonesty in this class, please notify the instructor or contact the Student Honor Court (392-1631) or Cheating Hotline (392-6999). For additional information on Academic Honesty, please refer to the University of Florida Student Honor Code and Student Conduct Code at: <https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/>.

### Participation

Students are expected to participate in all classes and are responsible for all material covered during the lecture, including announcements. Students are strongly encouraged to read the assigned chapters before coming to class as this will make it easier to comprehend the lecture material. If you miss class, visit the Canvas site for any lecture slides/notes and course announcements.

There are no points awarded for attendance directly. No credit will be retroactively awarded for unanswered Learning Catalytics quiz questions. We understand that some of you may have unique circumstances this semester and are happy to accommodate you as best as we can. Please contact us if you have extenuating circumstances that prevent you from attending class during your lecture time.

### Netiquette and Communication Courtesy

All members of the class are expected to follow [rules of common courtesy](#) in all email messages, threaded discussions, and chats.

## Time Commitment

The UF College of Liberal Arts and Sciences assumes that each student will devote 3-4 hours per week per credit-hour to each course, including time in lectures and labs. Because BSC 2010 is 3 credits, each student should therefore expect to devote 9-12 hours per week to this course during a regular semester, or 11-15 hours per week during the summer. A recommended time allocation is below.

Activity	Hours per Week
Lectures	3
LaunchPad Homework	1-2
Textbook Readings	2-3
Review and Study	2-4

If you find yourself spending more than the recommended number of hours per week on average on these activities, discuss this with your course instructor to see if you can refine your study habits. We encourage you to view the Study Skill Videos (<https://writing.ufl.edu/writing-studio/video-resources/study-skills/>). If you find yourself spending less than the recommended number of hours per week on average, you should recognize that you may have difficulty learning and comprehending the material in this time, and this will probably be reflected in poor performance on the various assessments, causing you to receive a lower overall course grade.

## Accommodations for Students with Disabilities

Students who will require a classroom accommodation for a disability must contact the Dean of Students Office of Disability Resources, in Peabody 202 (phone: 352-392-1261). Please see the University of Florida Disability Resources website for more information at: <https://disability.ufl.edu/>. Note that the student should provide documentation of a requirement for accommodation **by the second week of classes**. No accommodations are available to students who lack this documentation. It is the policy of the University of Florida that the student, not the instructor, is responsible for arranging accommodations when needed. Once notification is complete, the Dean of Students Office of Disability Resources will work with the instructor to accommodate the student.

## Course Evaluation

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at: <https://gatorevals.aa.ufl.edu/>. Evaluations are stored and reported in a completely anonymous manner. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

## Class Demeanor

Students are expected to arrive to class on time and behave in a manner that is respectful to the instructor and to fellow students. Please avoid the use of cell phones and restrict eating to outside of the classroom. Opinions held by other students should be respected in discussion, and conversations that do not contribute to the discussion should be held at minimum, if at all.

## In Class Expectations

In response to COVID-19, the following practices are in place to maintain your learning environment, to enhance the safety of our in-classroom interactions, and to further the health and safety of ourselves, our neighbors, and our loved ones.

- If you are not vaccinated, get vaccinated. Vaccines are readily available at no cost and have been demonstrated to be safe and effective against the COVID-19 virus. Visit this link for details on where to get your shot, including options that do not require an appointment: <https://coronavirus.uflhealth.org/vaccinations/vaccine-availability/>. Students who receive the first dose of the vaccine somewhere off-campus and/or outside of Gainesville can still receive their second dose on campus.
- You are expected to wear approved face coverings at all times during class and within buildings even if you are vaccinated. Please continue to follow healthy habits, including best practices like frequent hand washing. Following these practices is our responsibility as Gators.
  - Sanitizing supplies are available in the classroom if you wish to wipe down your desks prior to sitting down and at the end of the class.
  - Hand sanitizing stations will be located in every classroom.
- If you are sick, stay home and self-quarantine. Please visit the UF Health Screen, Test & Protect website about next steps, retake the questionnaire and schedule your test for no sooner than 24 hours after your symptoms began. Please call your primary care provider if you are ill and need immediate care or the UF Student Health Care Center at 352-392-1161 (or email [covid@shcc.ufl.edu](mailto:covid@shcc.ufl.edu)) to be evaluated for testing and to receive further instructions about returning to campus. UF Health Screen, Test & Protect offers guidance when you are sick, have been exposed to someone who has tested positive or have tested positive yourself. Visit the [UF Health Screen, Test & Protect website](#) for more information.
  - Course materials will be provided to you with an excused absence, and you will be given a reasonable amount of time to make up work.
  - If you are withheld from campus by the Department of Health through Screen, Test & Protect you are not permitted to use any on campus facilities. Students attempting to attend campus activities when withheld from campus will be referred to the Dean of Students Office.
- Continue to regularly visit [coronavirus.UFHealth.org](https://coronavirus.UFHealth.org) and [coronavirus.ufl.edu](https://coronavirus.ufl.edu) for up-to-date information about COVID-19 and vaccination.

## In-Class Recording

Our class sessions may be audio and visually recorded (HyFlex) for students to refer back to, and for enrolled students who are unable or do not wish to attend live. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live. The chat will not be recorded or shared. As in all courses, unauthorized recording and unauthorized sharing of recorded materials is prohibited.

Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are (1) for personal educational use, (2) in

connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor.

A “class lecture” is an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation, and delivered by any instructor hired or appointed by the University, or by a guest instructor, as part of a University of Florida course. A class lecture does not include lab sessions, student presentations, clinical presentations such as patient history, academic exercises involving solely student participation, assessments (quizzes, tests, exams), field trips, private conversations between students in the class or between a student and the faculty or lecturer during a class session.

Publication without permission of the instructor is prohibited. To “publish” means to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third party note/tutoring services. A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student Honor Code and Student Conduct Code.

## Lecture Schedule

Please check the Canvas course website for the most up-to-date lecture schedule.

LaunchPad assignments are continuously available; particular assignments will be posted regularly.

Day	Date	Lecture	Topic	Chapter	Assignments Due
Mon	23-Aug	Lecture 0	Intro and course overview		
<b>Dr. Oppenheimer’s Cells Unit</b>					
Wed	25-Aug	Cells 1	Science as a Process/Life’s Chemistry and the Importance of Water 1	1.1 Living Organisms Share Common Aspects of Structure, Function, and Energy Flow 1.5 Science Is Based on Quantitative Observations, Experiments, and Reasoning 2.1 An Element’s Atomic Structure Determines Its Properties 2.2 Atoms Bond to Form Molecules	
Fri	27-Aug	Cells 2	Life’s Chemistry and the Importance of Water 2	2.3 Chemical Transformations Involve Energy and Energy Transfers 2.4 Chemical Reactions Transform Substances	

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				2.6 Functional Groups Give Molecules Specific Properties		
Sat	28-Aug				Animation 2.1 Animation 2.1 Quiz Activity 2.2 Functional Groups Chapter 2 Summative Quiz Chapter 2 Learning Curve	
Mon	30-Aug	Cells 3	Lipids and Carbohydrates	3.1 Lipids Are Characterized by Their Insolubility in Water 3.2 Carbohydrates Are Made from Simple Sugars		
Wed	1-Sep	Cells 4	Nucleic Acids and Proteins	3.3 Nucleic Acids Are Informational Macromolecules 3.4 Proteins Are Polymers with Variable Structures		
Fri	3-Sep	Cells 5	Proteins and Enzymes	3.4 Proteins Are Polymers with Variable Structures 3.5 The Function of a Protein Is Determined by Its Structure		
Sat	4-Sep				Animation 3.1 Animation 3.1 Quiz Animation 3.2 Animation 3.2 Quiz Animation 3.3 Animation 3.3 Quiz Activity 3.4 Animation 3.4 Animation 3.4 Quiz Animation 3.6 Animation 3.6 Quiz Animation 3.7 Animation 3.7 Quiz Chapter 3 Summative Quiz Chapter 3 Learning Curve	
Mon	6-Sep	LABOR DAY - NO CLASS				

Wed	8-Sep	Cells 6	Membranes	<p>4.1 The Cell Membrane Separates the Interior of the Cell from Its Environment</p> <p>4.2 Passive and Active Transport Are Used by Small Molecules to Cross Membranes</p> <p>4.3 Vesicles Are Used to Transport Large Molecules across Membranes in Eukaryotes</p>	
Fri	10-Sep	Cells 7	Cell Structure 1	<p>4.4 Cell Size, Shape, and Ability to Move Are Determined by Internal and External Structures</p>	
Sat	11-Sep				<p>Animation 4.1</p> <p>Animation 4.1 Quiz</p> <p>Animation 4.2</p> <p>Animation 4.2 Quiz</p>
Mon	13-Sep	Cells 8	Cell Structure 2	<p>4.5 Compartmentalization Occurs in Prokaryotic Cells and Is Extensive in Eukaryotic Cells</p>	
Wed	15-Sep	Cells 9	Cell Signaling 1	<p>6.1 Cells Detect a Variety of Signals</p> <p>6.2 Signal Molecule Receptors Can Be Classified into Several Groups</p>	
Fri	17-Sep	Cells 10	Cell Signaling 2	<p>6.3 Signal Transduction Allows a Cell to Respond Appropriately to a Signal</p> <p>6.4 Signal Transduction Is Highly Regulated</p>	
Sat	18-Sep				<p>Animation 4.4 Animation 4.4 Quiz</p> <p>Chapter 4 LearningCurve</p> <p>Chapter 4 Summative Quiz</p> <p>Animation 6.1</p> <p>Animation 6.1 Quiz</p> <p>Animation 6.2</p> <p>Animation 6.2 Quiz</p> <p>Chapter 6 LearningCurve</p>

					Chapter 6 Summative Quiz
Mon	20-Sep	Cells 11	ATP and Redox Reactions	5.1 ATP and Reduced Coenzymes Are the Energy Currency for Biosynthesis	
Wed	22-Sep	Cells 12	Respiration and Fermentation	5.2 Carbohydrate Catabolism in the Presence of Oxygen Releases a Large Amount of Energy	
Fri	24-Sep	Cells 13	Photosynthesis	5.5 Life Is Supported by the Sun: Light Energy Captured during Photosynthesis Converts Carbon Dioxide to Carbohydrates	
Sat	25-Sep				Animation 5.1 Animation 5.1 Quiz Activity 5.2 Activity 5.3 Activity 5.5 Animation 5.4 Animation 5.4 Quiz Chapter 5 Summative Quiz Chapter 5 Learning Curve
Mon	27-Sep	Cells 14	C3, C4, and CAM Pathways	5.5 Life Is Supported by the Sun	
<b>Dr. Baer's Genetics Unit</b>					
Wed	29-Sep	Genetics 1	Introduction to Genetics (Unit 2)		<b>Exam 1</b>
Fri	1-Oct	Genetics 2	Cell cycle, mitosis, and meiosis	Ch. 7 The Cell Cycle and Cell Division	
Sat	2-Oct				
Mon	4-Oct	Genetics 3	Mendelian Genetics I	Ch. 8. Inheritance, Genes, and Chromosomes	

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Wed	6-Oct	HOMECOMING -- NO CLASS			
Fri	8-Oct	Genetics 4	Mendelian Genetics II	Ch. 8, con't	
Sat	9-Oct				Launchpad Assignments - Activities 7.2, 7.4, and 8.1; Animation 7.2 and Animation 7.2 Quiz; Ch. 7 Learning Curve and Summative Quiz
Mon	11-Oct	Genetics 5	Mendelian Genetics III	Ch. 8, con't	
Wed	13-Oct	Genetics 6	Chromosomes and Linkage I	Ch. 8, con't	
Fri	15-Oct	Genetics 7	Chromosomes and Linkage II, Genetic material	Ch. 8, Ch. 9 DNA and its role in heredity	
Sat	16-Oct				Launchpad Assignments - Activity 8.2; Animation 8.2 and Animation 8.2 Quiz; Chap 8 Learning Curve and Summative Quiz; Animation 9.1 and Animation 9.1 Quiz
Mon	18-Oct	Genetics 8	Molecular biology I. Central dogma, Replication, Transcription	Ch. 9, Ch. 10 From DNA to Protein: Gene Expression	
Wed	20-Oct	Genetics 9	Molecular biology II. Translation and the genetic code	Ch. 10	
Fri	22-Oct	Genetics 10	Mutation I	Ch. 9, 10	
Sat	23-Oct				Launchpad Assignments – Chap 9 Learning Curve and Summative Quiz;



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					Activities 10.2 and 10.4; Animation 10.4 and Animation 10.4 Quiz; Chap 10 Learning Curve and Summative Quiz
Mon	25-Oct	Genetics 11	Mutation II; DNA repair	Ch. 7, 9	
Wed	27-Oct	Genetics 12	Gene expression	Ch. 11 Regulation of Gene Expression	
Fri	29-Oct	Genetics 13	Genomics and Biotechnology	Ch. 12 Genomes	
Sat	30-Oct				Launchpad Assignments - Animation 11.1 and Animation 11.1 Quiz; Chap 11 Learning Curve and Summative Quiz
Mon	1-Nov	Genetics 14	Review		
Tue	2-Nov				Exam 2
<b>Dr. McDaniel's Evolution Unit</b>					
Wed	3-Nov	Evolution 1	Introduction to genealogy	<a href="https://gcbias.org/2017/12/19/1628/">https://gcbias.org/2017/12/19/1628/</a>	
Fri	5-Nov	Evolution 2	Forces of evolution	Chapter 13 Processes of evolution	
Sat	6-Nov				Launchpad - Animation 13.1 and quiz, video 13.1
Mon	8-Nov	Evolution 3	Modes of selection	Ch 13 cont'd	
Wed	10-Nov	Evolution 4	Recent adaptation	Ch 13 cont'd	
Fri	12-Nov	Evolution 5	Sex: a cost-benefit look	Ch 13 cont'd	

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Sat	13-Nov				Launchpad - Activity 13.2, 13.3, 13.5; Video 13.3, Ch 13 Learning curve and Summative quiz	
Mon	15-Nov	Evolution 6	Phylogeny	Ch 14 Reconstructing and using phylogenies		
Wed	17-Nov	Evolution 7	Molecular evolution	Ch 15 Genes and Genomes		
Fri	19-Nov	Evolution 8	Evolution of the genome	Ch 15 cont'd		
Sat	20-Nov				Launchpad - Activity 14.1, Animation 14.1 and quiz; video 15.1, analyze data companion exercise 15.3	
Mon	22-Nov	Evolution 9	Modes of speciation	Ch 16 Speciation		
Wed	24-Nov	THANKSGIVING -- NO CLASS				
Fri	26-Nov	THANKSGIVING -- NO CLASS				
Mon	29-Nov	Evolution 10	Earth history - tools	Ch 17 The history of life on earth		
Wed	1-Dec	Evolution 11	History of human migration			
Fri	3-Dec	Evolution 12	Earth history - biogeochemistry	Ch 17, 20		
Sat	4-Dec				Launchpad - Activity 16.1, animation 16.1; Activity 17.1, media clip 17.1, video 17.2	
Mon	6-Dec	Evolution 13	REVIEW			
Tue	7-Dec				Exam 3	

## Course Communications

All email correspondence to course instructors must **originate from your ufl.edu account, have your full name in the body of the email, and contain your course and section number in the subject line**. Emails not meeting these requirements may not be recognized by our email filters, and thus may not be answered.

**All correspondence regarding the online assignments (LaunchPad) must be sent to the TA.** To facilitate actual discussion, a [discussion forum](#) will be set up in Canvas. Any questions regarding the lecture material or the online assignments should be posted there, so that your instructors and TA, or your fellow students will be able to provide answers. Don't be shy about asking questions; after all, if you are confused about the material there will almost certainly be other students with the same questions.

## Communication with Your TA

When you have a question about the LaunchPad assignments, check the following sources first to see if it is already answered, **before** emailing your TA:

- Course Syllabus
- Canvas announcements (this is the primary means that your TA has to communicate with you in a timely manner)
- Canvas Discussion FAQ
- Canvas Discussion General Posts

If you still cannot find the answer to your questions:

- If it is a question that others might find useful to know the answer to as well, post it in the Canvas Discussion section.
- If it is a question specific to you (e.g. account or grade specific), email your TA. Barring unusual circumstances, expect a reply within 24 hours during the work week. Emails and Canvas Discussion posts are checked at least once per day, but sometimes not more than that.

## Getting Help & Supplemental Instruction

### Getting Help

If you have a non-tech-support question about the course, check the following sources first to see if it is already answered, before emailing your instructors:

- Course Syllabus
- Canvas Announcements (this is the primary means that your instructor has to communicate with you in a timely manner)
- Canvas FAQ Discussion Boards

### A. Computing Problems

For issues with technical difficulties with Canvas, please contact the UF Help Desk at:

- [learning-support@ufl.edu](mailto:learning-support@ufl.edu)
- (352) 392-4357 - select option 2

- <https://elearning.ufl.edu/keep-learning/>
- To get help with LaunchPad, visit this page in Canvas:  
<https://ufl.instructure.com/courses/436258/pages/launchpad-registration-instructions>.
- For help with Learning Catalytics, visit <https://support.pearson.com/getsupport/s/>.

## **B. Questions about Grades in Canvas, online assignments (LaunchPad) and lecture participation credit (Learning Catalytics)**

All correspondence regarding the online assignments (LaunchPad) and lecture participation (Learning Catalytics), and grades in Canvas must be sent to the TA (**see course front page for contact info**).

To facilitate actual discussion, a discussion forum will be set up in Canvas. Any questions regarding the lecture material or the online assignments should be posted there, so that your instructors or your fellow students will be able to provide answers. Don't be shy about asking questions; after all, if you are confused about the material there will almost certainly be other students with the same questions.

## **C. University Support Services**

College can be a very stressful time in a person's life. Resources are available on campus to help students meet academic goals and solve personal problems, which may interfere with their academic performance. If you find that you are having difficulty emotionally or academically, there is substantial support available. There are several online help resources (<https://counseling.ufl.edu/>) provided by the UF Counseling and Wellness Center or contact on of the following services:

1. UF Counseling and Wellness Center, <https://counseling.ufl.edu/outreach/mycwc-2/>, Radio Rd Facility, 352-392-1575
2. Dean of Students Office, <https://dso.ufl.edu/>, 202 Peabody Hall, 352-392-1261
3. Career Resource Center, <https://career.ufl.edu/>, Reitz Union, 352-392-1601
4. CLAS Academic Advising Center, <https://www.advising.ufl.edu/>, Farrior Hall, 205 Fletcher Drive, 352-392-1521

Also available is the The U Matter, We Care initiative, which is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact [umatter@ufl.edu](mailto:umatter@ufl.edu) so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

## **D. Basic Needs**

Any student who faces challenges securing their food or housing and believes this may affect their performance in the course is urged to contact the Dean of Students for support – see <http://www.umatter.ufl.edu>. Please notify the professor if you are comfortable in doing so, and visit The Field and Fork Pantry <https://pantry.fieldandfork.ufl.edu> for additional resources.

We are commitment to promoting diversity and inclusion based on sex, including sexual orientation and gender identity. For Title IX issues, please visit <https://titleix.ufl.edu/> or contact the UF Title IX office at (352) 273-1094 or [inform@titleix.ufl.edu](mailto:inform@titleix.ufl.edu).

## Supplemental Instruction

In Supplemental Instruction (SI), a trained student peer attends the class and then leads group sessions to focus on the challenging concepts and problems in the course. **SI is purely voluntary**; you can attend as often as you like, provided there is space (this is a first-come, first-served program). The sessions are collaborative, in that you will be working with classmates to better understand the material. The SI leaders will show you effective strategies for studying the course material, which you will have a chance to practice together, and the SI leaders will give you a chance to ask questions or pose your own concerns. Refer to the SI E-Learning site for the locations and schedules of the SI sessions. More information is available at the UF Supplemental Instruction Home Page:

<https://teachingcenter.ufl.edu/tutoring/study-groups/>.