



# BIOL 2312 - SPRING 2023

## INTRODUCTION TO MODERN BIOLOGY II

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SECTION 002 DAY/TIME: TUES AND THURS 2:30PM-3:45PM LOCATION: SLC 1.102

### INSTRUCTOR

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*Office Hours: Weekdays, By appointment (MS Teams Preferred)*

### COURSE DESCRIPTION

BIOL 2312 is a continuation of the modern biology series. Emphasis is placed on the physiology and anatomy of human and animal organ systems, and their relationship to the overall function of the organism.

### COURSE LINKS AND MODALITY

This course will be taught in person for Spring 2023 semester.

We will be using the UT Dallas Blackboard platform, eLearning. All materials can be found in Blackboard.

Blackboard Course Link Section 002:

[https://eLearning.utdallas.edu/webapps/blackboard/content/listContentEditable.jsp?content\\_id= 4916768\\_1 &course\\_id= 217072\\_1](https://eLearning.utdallas.edu/webapps/blackboard/content/listContentEditable.jsp?content_id= 4916768_1 &course_id= 217072_1)

### STUDENT LEARNING OUTCOMES

Upon completion of this course the students should be able to do the following:

1. Be able to explain and classify the basic anatomy and physiology of animal organ systems.
2. Analyze, using these systems, the relationship between the structure and function of an animal system.
3. Evaluate structure/function relationships of organ systems and explain how they integrate into the total organism.

**THESE DESCRIPTIONS AND TIMELINES ARE SUBJECT TO CHANGE AT THE  
DISCRETION OF THE PROFESSOR.**

## COURSE PRE-REQUISITES, CO-REQUISITE AND/OR OTHER RESTRICTIONS

**Co-requisite:** Introduction to Modern Biology Workshop: BIOL 2112

Section	Day	Time	Location
BIOL 2112.010	Friday	1:00PM-1:50PM	SCI 3.220
BIOL 2112.011	Monday	9:00AM-9:50AM	FO 3.222
BIOL 2112.012	Monday	1:00PM-1:50PM	SLC 3.102
BIOL 2112.013	Wednesday	8:00AM-8:50AM	FO 3.222
BIOL 2112.014	Wednesday	11:00AM-11:50AM	FO 3.222
BIOL 2112.015	Friday	8:00AM-8:50AM	FO 3.222
BIOL 2112.016	Friday	4:00PM-4:50PM	SLC 2.203
BIOL 2112.017	Monday	8:00AM-8:50AM	FO 3.222

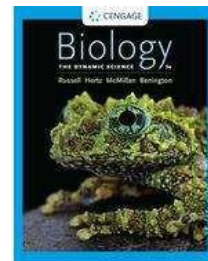
## TEXTBOOKS AND MATERIALS

### REQUIRED:

1. Cengage Unlimited: <https://www.cengage.com/unlimited/> (do NOT create an account immediately)
- The materials required for this class-and any other classes using Cengage products-are included in ONE Cengage Unlimited subscription. For \$119.99 per semester, you get access to ALL your Cengage eTextbooks and online homework in ONE place.
- choose one of three levels of access:
  - o \$119.99 per term (4 months) - If you are taking both BIOL 2311 and 2312 in Fall 2020, choose this option
  - o \$179.99 a year (12 months)- If you are taking BIOL2311 and BIOL2312 this Fall and Spring 2021, choose this option to cover all materials for a FULL year
  - o \$239.99 for 2 years (24 months)
- All three options include:
  - o access to an ebook to the edition shown below
  - o access to Mindtap software for learn it exercises, homeworks and quizzes
  - o Four FREE hardcopy textbook rentals for select titles, just pay \$7.99 S&H each text.
- **Our textbook:**

### ***Biology: The Dynamic Science, 5th Edition***

**Peter J. Russell; Paul E. Hertz; Beverly McMillan; Joel H. Benington**  
**ISBN-10: 0-357-13489-3**  
**ISBN-13: 978-0-357-13489-4**



\*\*\*\*\*IF YOU ARE UNSURE OF THE BEST OPTION, WAIT FOR FIRST DAY OF LECTURE AND USE THE FREE TRIAL PERIOD.

- 2 Chrome Browser - please make sure this is the most current version
- 3 Web camera with microphone - preferred to be laptop integrated or separate plug-in (camera's integrated into a desktop may be problematic)
- 4 Microsoft Teams
- 5 Mobile device (phone or tablet)

## CENGAGE COURSE LINK

### GETTING REGISTERED

To access your course materials and explore Cengage Unlimited, log in to [eLearning.utdallas.edu](https://eLearning.utdallas.edu) and navigate to your BIOL 2312 course. Click on the first homework assignment. When prompted, create or log in with your Cengage account and follow the prompts to complete the registration process.

For step-by-step help getting registered, head <https://www.cengage.com/student/> and check out our training video and instructions.

### SUPPLEMENTAL INSTRUCTION

(SI) is offered for this course. SI sessions are free group study opportunities, scheduled two times per week. Sessions are facilitated by an SI Leader, who has recently taken the course and received a high final grade. Attendance is voluntary. For information about the days, times, and locations for SI sessions, refer to <https://studentsuccess.utdallas.edu/supplemental-instruction/>

### COVID-19 GUIDELINES AND RESOURCES

The following guidelines and resources outline expectations for students and instructors of record during the Spring 2023 semester.

**Classroom Safety and COVID-19** To help preserve the University's in-person learning environment, UT Dallas recommends the following:

Adhere to the University's [CDC Updated Guidelines](#) issued on December 14, 2022. Positive COVID-19 numbers have been relatively low in the Dallas-Fort Worth area. The Centers for Disease Control and Prevention (CDC) has elevated its COVID-19 threat level to Medium for Tarrant County, while Dallas, Collin and Denton counties remain Low.

The University encourages all community members to consider their personal level of risk and focus on prevention by getting vaccinated, masking when appropriate, covering coughs and sneezes, and practicing good hand hygiene. COVID-19 vaccines and the updated vaccine booster are widely available through health care providers and pharmacies. Students may get vaccinated and/or boosted through the [Student Health Center](#).

For those who are already vaccinated and/or boosted, thank you for helping protect yourselves and those around you.

#### Positive Covid-19 Self Reporting

If you have tested positive for COVID-19, please fill out our COVID-19 self-report form, which is available in [English](#) and [Spanish](#). While UT Dallas is no longer using contact tracing, completing the positive COVID-19

self-report form allows UT Dallas officials to monitor COVID-19 trends on campus. You will receive a confirmation email with a summary of the current COVID-19 guidance. Students and employees are responsible for notifying their faculty and supervisors of an absence. Notifications will not be sent on your behalf.

Vaccinations and boosters remain one of the most effective tools in preventing severe illness from COVID-19. The vaccines are widely available through health care providers and pharmacies, and students may get vaccinated and/or boosted through the [Student Health Center](#).

### **Accommodations for Students Who Miss Class for Reasons Unrelated to COVID-19**

Individual faculty maintain their discretion on whether and how to accommodate student absences unrelated to COVID-19.

### **Accommodations for Students Who Must Isolate or Quarantine Due to COVID-19**

To keep the UT Dallas community as safe as possible, the University requires students who test positive for COVID-19 or who are close contacts as determined by the campus contact tracing program to isolate or quarantine as applicable. Faculty will be notified by the Dean of Students' Office if a student in their class has been required to isolate (positive case) or quarantine (exposed). Faculty must make lectures available for those students during the period the students must isolate or quarantine. Faculty who need assistance with providing these students access to course content can contact the eLearning Team at [eLearning@utdallas.edu](mailto:eLearning@utdallas.edu). Faculty have the discretion to set an attendance policy for their in-person meetings, but the absences due to COVID-19 cannot be counted against an isolated or quarantined student.

### **Free At-Home COVID-19 Tests**

The federal government is distributing free COVID-19 tests by mail. Order your set of [four at-home rapid tests](#). They will ship for free beginning Dec. 19.

Certain elements of at-home tests expire. [Check the shelf life](#) of your at-home COVID-19 tests.

The Department of Health does not consider at-home tests as regulated medical waste. They can be disposed of in a regular trash can.

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## COURSE POLICIES

### LECTURES:

- Lectures will be in person.
- All lecture slides for the week will be provided in eLearning prior to each Tuesday's lecture.
- Textbook is not required during lecture, but recommended.
- Attendance will be taken on each day of class on Cengage app. Details regarding attendance rules are described below.

### LEARN IT EXERCISES:

- There are three "learn it" exercises each week. They are worth 3 points each. 9 points for each week's chapter.
- Learn It Exercises will be accessed via eLearning in the **current unit folder** and submitted using the MindTap Cengage program.
- Instructions on how to complete Learn It Exercises are found at the [end of the syllabus](#).
- **Refer to the assignment schedule supplied on eLearning for start dates and due dates.** Due date and time will be shown in MindTap/Cengage and the assignment schedule.
- The Learn It Exercises are not timed. You may work on it in parts and save it as you go. Estimated time to complete each Learn It Exercises is 5-15 minutes.
- The **lowest six (6) Learn It Exercise scores** will be dropped from your final grade. This is equivalent to 2 chapters worth of assignments. The drops will be the lowest scores over the whole semester. It is possible to have drops from different weeks as each 3-point score is looked at individually.
- Please make sure to access the Learn It Exercises using eLearning and DO NOT log directly into Cengage. This will cause your grade to not record properly.
- If you incur any technical difficulties, you can contact me to resolve the issue. All such requests must be submitted to me via email and prior to Saturday 11:59pm. I will not fix any technical issues on the day the homework is due. In other words, do not wait until the last day to complete the Learn It Exercises.

### HOMEWORKS:

- One homework will be assigned each week and found in the current unit folder in eLearning.
- Instructions on how to complete homeworks are found at the [end of the syllabus](#).
- Each homework is worth ten (10) points. You will have two attempts at the homework questions. The best score of the two attempts will record.
- Homework will be accessed via eLearning and submitted using the MindTap Cengage program. Due dates will be shown and correlate.
- The homework is not timed. You may work on it in parts and save it as you go. Estimated time to complete each homework is 30-45 minutes.
- The **lowest two (2) homework scores** will be dropped from your final grade.
- **Refer to the assignment schedule supplied on eLearning for start dates and due dates,** Due date and time will be shown in eLearning/MindTap/Cengage.

- Please make sure to access the homework using eLearning and DO NOT log directly into Cengage. This will cause your grade to not record properly.
- If you incur any technical difficulties, you can contact me to resolve the issue. All such requests must be submitted to me via email and prior to Saturday 11:59pm. **I will not fix any technical issues on the day the homework is due.** In other words, do not wait until the last day to complete the homework.

### QUIZZES:

- All quizzes will be given in eLearning. Look for link in the current Unit on the course homepage.
- Quizzes will be posted on Thursdays and cover the material from current week's topic.
- Quizzes are due by the following Sunday 11:59pm. Due date and time will be shown in eLearning and MindTap/Cengage. This means you will two-three days to review that week's lecture material to take the quiz. **Refer to the assignment schedule supplied on eLearning for start dates and due dates.**
- Each quiz will be ten (10) questions of multiple choice, fill-in the blank, T/F and mix-and-match styles.
- Each question is worth 0.5 point.
- You will have one (1) attempt for each quiz, so be prepared to take it once you start.
- You will have ten (10) mins to complete the quiz.
- There are no makeup quizzes. No exceptions. Any missed quiz will count as a zero (0).
- If you incur any technical difficulties, you can contact me to resolve the issue. All such requests must be submitted to me via email and prior to Monday 11:59pm. **I will not fix any technical issues on the day the quiz is due.** In other words, do not wait until the last day/minute to take the quiz if you are concerned about having technical problems.
- Your final grade will drop the lowest two (2) quiz scores.

### EXAMS:

- Four (4) online exams will be given during the semester.
- Exam dates and times are shown in the calendar **(Page 13)** at the end of the syllabus.
- No exams will be dropped.
- All exams will be taken in the UT Dallas testing center.

### Exam Format:

- Exam will be given at the testing center per the schedule in this syllabus.
- Each exam will be 50 questions and worth 150 points.
- You will have 75 minutes to complete the exam. Average time to complete it should be 60 minutes.
- Each exam will cover one unit of material as shown by the color coding in the [schedule at the end](#) of the syllabus and in the tentative academic calendar
- The structure of all exams will be mix of question styles divided as follows:
- 70% multiple choice, true/false, matching questions, although this can vary.
- 30% fill-in the blank, short answer (1 paragraph maximum), although this can vary.
- Everything in the textbook is fair game for lecture exams, regardless of whether or not it is presented in class. You are responsible to use the information contained in the entire chapters to prepare for exams.

- For exam purposes only, when there are conflicts between the information contained in textbook (or any other outside source) and the material presented in class, material presented by the professor in class will rule over what is written in textbook/outside source.
- Do not miss exams! (If exams are missed, you must be able to verify your reason for missing).
- Make-up lecture exams are usually not given. In extreme circumstances make-up exams will be given and will be different than that specified above. Legitimate Reasons to make-up missed lecture exams are as follows: death of an immediate family member and bona fide medical emergencies with proper documentation from your healthcare provider. Any reason must be presented in writing prior to the exam start as is reasonably possible.

### Testing Center Instructions:

- The Testing Center is located at 3020 Waterview Parkway, SP2 First Floor, Suite 11.175, Richardson, TX, 75080.
- Testing center hours and guidelines are found <https://ets.utdallas.edu/testing-center/students>
- Students **MUST** reserve their seat for testing at least **72 hours prior to the exam date.**
- Students **MUST** present their PHYSICAL student ID **Comet Card** each time to be admitted to the test. If you do not have an UTD photo ID presently, please make arrangements to get one before the first exam. <https://www.utdallas.edu/cometcard/cometcard/> **No other form of identification is acceptable. A driver's license will not work as that does not have your student ID.**
- Student must have the following information:
  - o Course Prefix+ Course Number+ Course Section Number+ Exam Name
  - o Instructor's Name
- No outside materials are required to take the exam. If the student violates this policy, an incident report will be filed and submitted to the instructor.
- Students are monitored while testing. The testing environment and its computers are electronically monitored and recorded to include real-time video and screen captures.
- Any accommodations required by the OSA will be honored at the Testing Center.
- The Exam link will be in the **"Exams"** folder in eLearning on left side navigation.

### Exam Grading:

- You will receive your exam score when the free response questions are graded. I try to have these scores posted by the Friday after the exam. But it can vary based on various criteria.
- Graded exams will not be reviewed in lecture or workshop. Answers to the exam will be available to review in eLearning once the scores are posted for the class.
- All questions/issues regarding exam questions and grades must be resolved within the week after the exam is made available to review. After this week, the exam scores will be considered final. You may schedule an office hour time (see first page for link) to discuss any questions that you might have.

### WORKSHOPS:

- **There are no workshops during the first week of classes.** After that, there will be a workshop each week. See last page for schedule of topics.
- Attendance will not be taken.
- Workshops are for reviewing lecture material and increasing critical thinking/analysis.

- Workshop Assignments (see below) will be assigned during the workshop.

**WORKSHOP ASSIGNMENTS:**

- These will be provided in your workshop Black board course, BIOL 2112, in the **assignments folder**.
- Workshop Assignments will be due 24 hours after the end of the workshop. Example: if you have a 4pm Monday workshop, your assignment will be due by 5pm Tuesday of the same week. The submission link will be removed after the deadline.
- Any assignment submitted late **will not** be accepted, **No excuses**.
- There will be one - five questions to complete. This can vary based on the depth of chapters.
- Submissions will be graded in eLearning.
- Any question about grading must be directed to the graduate TA and discussed within 7 days of receiving your score. After 7 days, your score is final for that assignment. If you disagree with your graduate TA's grading or cannot get a reply from your graduate TA, you can then contact me with the original email sent to the graduate TA. If this dated email is not provided, I will reference you back to your graduate TA.
- These assignments must contain unique work.
- Each workshop submission will be worth ten (10) points.
- Your final grade will drop the lowest (1) score.

**Attendance:**

- Students are encouraged to regularly attend the class as per the schedule mentioned in the syllabus.
- Attendance will be taken every day of class at random points using the **Cengage app**.
- Download the Cengage app (from google play store or app store), log in using your username and password. Register your attendance when directed using the attendance tab at the top panel found in the Intro to Bio II course.
- Make sure your attendance is properly recorded for each class.
- For issues with recording your attendance, contact the graduate teaching assistant before you leave the class.
- A maximum of 30 points can be earned towards your final score.
- Credit for attendance will be awarded at the end of the semester based on a **sliding scale** as summarized in the table below.

% Attendance	Points
90+	30
80-90	25
70-80	20
60-70	15
<60	0

## GRADING POLICY

- You will receive the same letter grade for **both** BIOL 2312 and BIOL 2112.
- Grades for the course will be calculated as follows:

	Quantity	Drops	Points	Points Possible
<b>Learn it</b>	42	6	3	108
<b>Homework</b>	14	2	10	120
<b>Quizzes</b>	14	2	5	60
<b>Workshops</b>	14	2	10	120
<b>Exams</b>	4	0	150	600
<b>Total Points Possible</b>				<b>1008</b>
<b>Attendance (BONUS)</b>				<b>( Up to 30)</b>

- Your score percentage will be the total points earned divided by the "TOTAL POINTS POSSIBLE" amount shown above. This percentage will be rounded to the nearest integer, e.g., 89.5 = 90; 89.49 = 89.
- Your final letter grade will be based on the percentage of total points calculated in #1 and placed against the scale in #3.
- Attendance points will be calculated based on the table given above based on a sliding scale (under the attendance header). It will then be added to your total final score you get on the assignments and exams (Total possible points 1,042) towards your final letter grade.

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- Grading scale:

Grade	% Cutoff	Grade	% Cutoff
A+	97	C	74
A	94	C-	70
A-	90	D+	67
B+	87	D	64
B	84	D-	60
B-	80	F	59 or lower
C+	77		

- Grades are determined based only on course performance. Grades are not based on need or effort. No points or fraction of a point will be awarded to increase to the next letter grade. NO EXCEPTIONS.
- **I do not curve grades.** Do not ask, beg, cry, or plead.
- In compliance with FERPA, grades and/or grade information will not be given to anyone other than the student and will not be discussed over the phone or emails.

## UT DALLAS SYLLABUS POLICIES/PROCEDURES

The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus. Please go to <http://go.utdallas.edu/syllabus-policies> for these policies.

[Remainder of page left intentionally blank]

## CHECKLIST TO COMPLETE BEFORE EXAM 1

- Figure out where the Testing Center is located
- Read over the Testing Center requirements including dress code
- Locate your [UT Dallas Comet ID Card](#) and carry it with you to the Testing Center

## LEARN IT EXERCISE AND HOMEWORK STEP-BY-STEP INSTRUCTIONS

- There are 4 question sets each week (3 Learn it and 1 Homework)
- 2 attempts are provided per question set
- Best attempt will be saved as your score
- Links for each set are posted in eLearning BIOL 2312 course

### *STEP-BY-STEP:*

1. Click eLearning link to begin a question set
2. MindTap will open in a new window, login if needed (you should only have to login for the first set for the entire semester)
3. Read assignment
4. Answer questions by selecting the drop down or radio buttons
5. Click "submit" when you have answered all questions to your liking, score will be shown at top
6. If you have full points, you are done and can move to submit assignment for final score (second attempt of zero will be ignored)
7. If you don't have full points, you can complete a second attempt
8. Questions will now show"..." next to the answer choices which provides feedback to assist in answering the questions on the second attempt
9. Click on "..." and review feedback
10. Click "try again" (bottom of assignment) to begin second attempt
11. Update any answers you determined are incorrect after reviewing feedback
12. Click "submit" to see score of second attempt
13. Highest of the two scores will be recorded

## TENTATIVE ACADEMIC CALENDAR

<b>Date</b>	<b>Lecture Topic</b>	<b>Workshop</b>
1/17/2023	Introduction and syllabus, Ch.38 Intro to Animal Organization and Physiology	none
1/19/2023	Ch.38 Intro to Animal Organization and Physiology	
1/24/2023	Ch 42. The Endocrine System	Intro to Animal Organization and Physiology
1/26/2023	Ch 42. The Endocrine System	
1/31/2023	Ch 49. Animal Reproduction	The Endocrine System
2/2/2023	Ch 49. Animal Reproduction	
2/7/2023	Ch 39. Neurons and synapses	Animal Reproduction
2/9/2023	Ch 39. Neurons and synapses	
<b>2/15/2023-2/18/2023</b>	<b>Wed-Sat (Testing Center Exam 1)</b>	<b><u>Confirm testing center schedule</u></b>
2/14/2023	Ch 40. Nervous system	Neurons and synapses
2/16/2023	Ch 40. Nervous system	
2/21/2023	Ch 41. Sensory System	Nervous system
2/23/2023	Ch 41. Sensory System	
2/28/2023	Ch 43. Muscles, Bones and Body Movement	Sensory System
3/2/2023	Ch 43. Muscles, Bones and Body Movement	
3/7/2023	Ch 44. The Circulatory System	Muscles, Bones and Body Movement
3/9/2023	Ch 44. The Circulatory System	
<b>3/08/2023-3/11/2023</b>	<b>Wed-Sat (Testing Center Exam 2)</b>	<b><u>Confirm testing center schedule</u></b>
<b>3/13/2023-3/19/2023</b>	<b>***** Spring Break-No Classes*****</b>	
3/21/2023	Ch 44. The Circulatory System	The Circulatory System
3/23/2023	Ch 46. The Respiratory System	
3/28/2023	Ch 46. The Respiratory System	The Respiratory System
3/30/2023	Ch 48. Osmoregulation, Excretion, & Thermoregulation (Urinary)	
4/4/2023	Ch 48. Osmoregulation, Excretion, & Thermoregulation (Urinary)	Urinary Part 1(non-vertebrate)
4/6/2023	Ch 48. Osmoregulation, Excretion, & Thermoregulation (Urinary)	
4/11/2023	Ch 47. Digestive System and Animal Nutrition	Urinary Part 2 (Vertebrate)
4/13/2023	Ch 47. Digestive System and Animal Nutrition	
<b>4/19/2023-4/22/2023</b>	<b>Wed-Sat (Testing Center Exam 3)</b>	<b><u>Confirm testing center schedule</u></b>
4/18/2023	Ch 45. Defenses against disease	Digestive System and Animal Nutrition
4/20/2023	Ch 45. Defenses against disease	
4/25/2023	Ch 45. Defenses against disease	Immune (Innate immunity+ Ab structure))
4/27/2023	Ch 20. Development of Evolutionary Thinking	
5/2/2023	Ch 21. Microevolution	Immune (Adaptive T-cells, B cells))
5/4/2023	Ch 21. Microevolution	
<b>5/08/2023-5/10/2023</b>	<b>MON-WED (Testing Center Exam 4)</b>	<b><u>Confirm testing center schedule</u></b>

**\*\*\*\*\* Chapters that will be covered for each exam are color coded for convenience\*\*\*\*\***

**\*\*\*\*\* Spring break 2023 March 13-19 No Classes\*\*\*\*\***

**\*\*\*\*\* Some chapters may need more time to finish so the dates and times mentioned are subject to change which will be announced\*\*\*\*\***

**\*\*\*\*\*Make sure you register for your exams well in advance and call/visit the testing center to verify your registration well in advance\*\*\*\*\***

**\*\*\*\*\*Check the testing center schedule and open timings (Link below) \*\*\*\*\***

**\*\*\*\*\*Confirm your testing center registration at least one week before the exam by calling the center or by visiting in person\*\*\*\*\***

**\*\*\*\*\*All exams will be open the whole testing center open times\*\*\*\*\***

**\*\*\*\*\*The professor is not responsible for confirming your registration. It is the responsibility of students to check it with the exam center as mentioned in the tentative academic calendar above\*\*\*\*\***

**\*\*\*\*\*For weather related emergencies, please follow University notifications and emergency procedures\*\*\*\*\***

**Link for testing center schedule and registration:**

**<https://ets.utdallas.edu/testing-center>**

**NOTE: The professor holds the right to change the syllabus at any point during the semester.**