

Course Number/Section	BIOL 2312.001, BIOL 2112.0U1, BIOL 2112.0U2
Course Title	Introduction to Modern Biology II
Term	Summer 2023
Days/Times/Location	BIOL 2312 001 MWF 11:30 AM - 12:45 PM, JSOM 2.722 BIOL 2112 0U1 Tu 1- 2:15 PM, SCI 2.210 BIOL 2112 0U2 Th 1- 2:15 PM, SCI 2.210
Professor	Z. Ruth Wu, PhD
email:	Zhuoru.Wu@UTDallas.edu
Office hours	by appointment, make appointment here
Tuesday Workshop 0U1 TAs	Fernando, Emily Emily.Fernando@UTDallas.edu Iqbal, Muzzammil Muzzammil.Iqbal@UTDallas.edu
Thursday Workshop 0U2 TAs	Singh, Harsimran Harsimran.Singh@UTDallas.edu Varghese, Mathew Mathew.Varghese@UTDallas.edu
TAs who generate review guide & practice questions	Sydney Doornik, Sydney.Doornik@UTDallas.edu Hannah Kim, Hannah.Kim4@UTDallas.edu Tanisha Patel, Tanisha.Patel@UTDallas.edu
Tutorial TA (graduate TAs)	Parinazsadat Alemi, Parinazsadat.Alemi@UTDallas.edu Ezzeldin Elhawary, Ezzeldin.Elhawary@UTDallas.edu Nathaniel Thomas, Nathaniel.Thomas@UTDallas.edu Suman Tiwari, Suman.Tiwari@UTDallas.edu Linyi Xu, Linyi.Xu@UTDallas.edu

Checklist for the first day:

1. All exams will be administered at the UTD testing center.
Students need to **reserve a time and seat for all four exams** at:

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

Students will earn 1 point if they complete the registration for all four exams by May 26.

2. **Please obtain the iClicker app** (\$15, the only expense associated with this class).
Attendance to lectures is mandatory.
Attendance credit is earned by taking pop quizzes during streamed or in-person lectures. The iClicker app is required to participate in the pop quizzes (see details below page 3-4).

To get started, follow the instructions:

<https://macmillan.force.com/iclicker/s/article/Checklist-Getting-Started-with-the-iClicker-Student-App>

You may join the courses via these links below:

Lecture: <https://join.iclicker.com/JYSC>

Workshop (OU1, **Tue**): <https://join.iclicker.com/JYSC>

Workshop (OU2, **Th**): <https://join.iclicker.com/LAOP>

Course Description

Introduction to Modern Biology II is the continuation of the modern biology series. It covers the

fundamental aspects of mammalian physiology with an emphasis on human physiology. Material will include an overview of each organ system's structure, function, mechanism, and cooperation. In addition to lectures, topics are reviewed in workshops that offer discussions, question/answer sessions, and quizzes.

Prerequisite courses:

- CHEM 1311 General Chemistry I
- CHEM 1312 General Chemistry II

Course Objectives and Learning Outcomes

This course reviews the basic physiology of the main human organ systems. Topics will cover each system's structure and function at the cellular and molecular level, with an emphasis on how each system functions in maintaining homeostasis.

Students will:

1. Understand the organization of life as a system
2. Understand the structures and functions of various organs and the connection between them
3. Understand how different organs and organ systems work together to maintain homeostasis

Recommended Textbook:

Textbook: Biological Science, (Freeman), 6th edition Online Access: Mastering Biology Access Card/Code

ISBN 10: 0-321-97649-5; ISBN 13: 978-0-321-97649-9 (Student edition)

ISBN 10: 0-134-24306-4; ISBN 13: 978-0-134-24306-1 (Books a la Carte edition)

Notes: BIOL 2312 covers chapters 39-48 of the textbook. The content of earlier editions of the Biological Science (Freeman) textbook is acceptable for most of the material, although chapter numbers may be different.

Communication with Instructor and TAs:

The instructor will communicate with students through the email and the Announcements tool on eLearning. Students may send personal concerns or questions to the instructor and/or a specific TA(s):

- For questions regarding the lecture materials, iClicker, and grades: contact Dr. Wu
- For questions regarding workshop and its iClicker and attendance grades: contact your workshop TAs
- For questions regarding workshop quizzes and quiz grades: contact your workshop Linyi Xu, Linyi.Xu@UTDallas.edu
- For questions regarding the Practice Questions and Review Guides: contact any of the corresponding TAs
- For questions regarding tutorial service and Q/A sessions before each exam: contact the corresponding graduate TAs or Dr. Wu

Only a UTD provided email address should be used in all course related communications.

Student Assessments /Grading Information

Exams x 4	each 100 points (No exam will be dropped)	400
Workshop Quizzes x 10	10 pts each x 9 = 90 (The lowest quiz will be dropped)	90
Workshop participation (iClicker + activities)	3 pts for participation (iClicker) x 10 + Up to 3 bonus pts for activity x 9	30
Lecture participation (iClicker + survey)	0.5 pts each x 26 + Up to 0.5 bonus for correctness x 24	13
Class question pool contribution	1 bonus pt /question/topic, additional 1 bonus pts/ question picked for exam usage	
	Total points	533

Points Earned	Letter Grade	Points Earned	Letter Grade
97-100%	A+	77-79%	C+
93-96%	A	73-76%	C
90-92%	A-	70-72%	C-
87-89%	B+	67-69%	D+
83-86%	B	63-66%	D
80-82%	B-	60-62%	D-
		<60%	F

Exams – There are **4 exams, 100 points each**.

Exams will consist of multiple-choice, true/false, and matching. Extra credit questions may be offered. Exams will be completed at UTD testing center on the dates posted on the syllabus.

Make-up exams are not allowed. A make-up will only be considered under extenuating circumstances with an excused absence note (for example, a note from a local physician, who can examine you in person, stating there is no way for you to take the exam) and **upon prior discussion with the instructor**. Makeup exam will also be administered at UTD testing center.

The following policies will be reinforced with **no exception**:

1. Those who **failed to register** for the exam will **receive zero points; no makeup exam will be allowed**.
2. Those who registered but **fail to show up to take the test** without communicating a

legit reason will **receive zero points; no makeup exam will be allowed.**

Legit excuses include a physician's note stating your condition does not permit you to take the exam. **Notes from doctors of virtual clinics will not be accepted** due to their inability to validate your conditions. **Upon prior discussion with Dr. Wu,** a make-up may be considered.

3. Those who registered and showed up for the exam but could not take it due to **violating the testing center rules will lose 10 points from their makeup test**, which will be administered at the testing center during the following week.

Workshop Quizzes: There are **10 quizzes, 10 pts each.**

Quizzes will be completed **online in workshop e-Learning.** These can be found in the "Quizzes" folder under BIOL 2112 Course Content area. It is the responsibility of the student to keep track of the scheduled quizzes. Both opening and expiration times are specified in a table at the end of this syllabus. **Any missed quiz will result in a grade of 0 (zero) and no make-up quizzes will be allowed.**

Credit for attendance to in-person lectures and workshops: Attendance is mandatory, Attendance credit will be awarded when responding to over 50% of the iClicker questions for each lecture or workshop. Bonus points will be awarded for the correctness of the answers.

Credit for Class Question Pool contribution: This activity is designed to encourage understanding and critical thinking of the material. Students may contribute one thought-provoking question per topic to a class question pool. One bonus point will be awarded for each question submitted. This question pool may be used by everyone as practice questions when preparing for the exams. Good questions may be selected and used for the exams. One additional point will be awarded for such questions. The links for submitting questions and for viewing the question pools are provided under "Class Question Pool" in the Course Content area of eLearning.

UT Dallas Syllabus Policies and Procedure:

<http://go.utdallas.edu/syllabus-policies>

Comet Creed

This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same:

"As a Comet, I pledge honesty, integrity, and service in all that I do."

The descriptions and timelines in this syllabus are subject to change at the discretion of the Professor.

Course Schedule:

Week	Date	Lecture	Topic
1	Wednesday, May 24, 2023	1	Class info, Chapter39 systems organization
	Friday, May 26, 2023	2	Chapter39 tissues types, homeostasis
2	Monday, May 29, 2023	No class, Memorial day	
	Wednesday, May 31, 2023	3	Chapter41 digestive system
	Friday, June 2, 2023	4	Chapter41 digestive system
3	Monday, June 5, 2023	5	Chapter46 endocrine system
	Wednesday, June 7, 2023	6	Chapter46 endocrine system
	Friday, June 9, 2023	7	Chapter47 reproduction-female
4	Monday, June 12, 2023	8	Chapter47 reproduction-male
	Wednesday, June 14, 2023		Q/A SESSION ON TEAMS
	Thursday, June 15, 2023	Exame-1 (8:30 AM-8:30 PM at UTD testing center)	
	Friday, June 16, 2023	Exam-1 review	
5	Monday, June 19, 2023		No class, Juneteenth/ Emancipation Day
	Wednesday, June 21, 2023	9	Chapter43 nervouse system, neurons
	Friday, June 23, 2023	10	Chapter43 action potential
6	Monday, June 26, 2023	11	Chapter44 hearing
	Wednesday, June 28, 2023	12	Chapter44 vision, smell and taste
	Friday, June 30, 2023	13	Chapter45 skeletal muscles structure
7	Monday, July 3, 2023	14	Chapter45 muscle contraction
	Wednesday, July 5, 2023	15	Chapter45 bones and skeletal system
	Friday, July 7, 2023	Exame-2 (8:30 AM-8:30 PM at UTD testing center)	
8	Monday, July 10, 2023	16	Chapter42 cardiovascular system- heart
	Wednesday, July 12, 2023	17	Chapter42 cardiovascular system- vessels, blood
	Friday, July 14, 2023	18	Chapter42 Fetalcirculation_ Lymphatic system
9	Monday, July 17, 2023	19	Chapter42 respiratory system
	Wednesday, July 19, 2023	20	Chapter42 respiratory system
	Friday, July 21, 2023	Exame-3 (8:30 AM-8:30 PM at UTD testing center)	
10	Monday, July 24, 2023	21	Chapter40 renal system
	Wednesday, July 26, 2023	22	Chapter40 renal system
	Friday, July 28, 2023	23	Chapter48 immune system
11	Monday, July 31, 2023	24	Chapter48 immune system
	Wednesday, August 2, 2023	25	Chapter48 immune system
	Friday, August 4, 2023	Exame-4 (8:30 AM-8:30 PM at UTD testing center)	

***Last day to withdraw from classes is June 9, 2022**

Workshop Schedule: Tu or Th 1 - 2:15 PM

0U1		Tuesdays	Content
1	5/30		Intro Chapter 39 – review Tissues Chapter 41 - preview Digestive System
2	6/6		Chapter 41 – review Digestive Chapter 46 - preview Endocrine System
3	6/13		Chapter 46 – Endocrine System Chapter 47 – preview Reproduction – female Chapter 47 – preview Reproduction – male + Exam Review
4	6/20		Chapter 43 – Nervous System
5	6/27		Chapter 43 – review Action Potentials Chapter 44 – preview Senses (Hearing, Vision, Smell, Taste)
6	7/4		NO WORKSHOP, Independence Day
7	7/11		Chapter 45 – Skeletal System, Muscles, Bones + Exam Review
8	7/18		Chapter 42 – Cardiovascular System Chapter 42 – Fetal circulation & Lymphatic System Chapter 42 – Respiratory System + Exam Review
9	7/25		Chapter 40 – review Renal System Chapter 48 – preview Immune System
10	8/1		Chapter 48 – Immune system + Exam Review
0U2		Thursdays	Content
1	5/25		Intro Review Chapter 39 – Tissues Preview Chapter 41 – Digestive System
2	6/1		Review Chapter 41 – Digestive system Preview Chapter 46 – Endocrine System
3	6/8		Review Chapter 46 – Endocrine system Review Chapter 47 – Reproduction – female Preview Chapter 47- Reproduction – male + Exam Review
4	6/22		Chapter 43 – Nervous System
5	6/29		Chapter 43 – review Action Potentials Chapter 44 – preview Senses (Hearing, Vision, Smell, Taste)
6	7/6		Chapter 45 – Skeletal System, Muscles, Bones + Exam Review
7	7/13		Chapter 42 – Cardiovascular System
8	7/20		Chapter 42 – Respiratory System Chapter 42 – Fetal circulation & Lymphatic System + Exam Review
9	7/27		Chapter 40 – review Renal System Chapter 48 – preview Immune System
10	8/3		Chapter 48 – Immune system + Exam Review

Workshop Quiz Schedule:

Workshop Quizzes	Post Date/Time		Due Date/Time	
	1	5/26	1:00 PM	5/28
2	6/9	1:00 PM	6/11	11:59 PM
3	6/12	1:00 PM	6/14	11:59 PM
4	6/23	1:00 PM	6/25	11:59 PM
5	6/30	1:00 PM	7/2	11:59 PM
6	7/5	1:00 PM	7/6	11:59 PM
7	7/14	1:00 PM	7/16	11:59 PM
8	7/19	1:00 PM	7/20	11:59 PM
9	7/28	1:00 PM	7/30	11:59 PM
10	8/2	1:00 PM	8/3	11:59 PM

Class Question Pool Submission Schedule

Question pool	Post Date	Due Date/Time
for exam-1	May 24	Monday June 12th, 11:59 PM
for exam-2	May 24	Wednesday July 5th 11:59 PM
for exam-3	May 24	Wednesday July 19th, 11:59 PM
for exam-4	May 24	Wednesday August 2nd, 11:59 PM

Q/A sessions on Teams before exams

Q/A sessions	Date/Time	Hosted by
Session-1	Wednesday, June 14, 1-2 pm	Grad TA on Teams
Session-2	Thursday, July 6, 2:30-3:30 pm	Grad TA on Teams
Session-3	Thursday, July 20, 2:30-3:30 pm	Grad TA on Teams
Session-4	Thursday, August 3, 2:30-3:30 pm	Grad TA on Teams