	Course	BIOL 2311 Modern Biology I	
	Professor Mehmet Candas		
	Term	FALL 2022	
UID	Meetings	Lecture: MWF 5:00-5:50 pm SLC 1.102 Workshops BIOL 2111 sections 012 through 023, and 501)	

Professor's Contact Information

Office Phone	972-883-6338
Office Location	FN 3.206
Email Address	candas@utdallas.edu
Other	Email responses may be slow due to large volume of correspondence.
Information	Best way to reach Dr. Candas is before and after lecture class meetings.

Teaching	Sakshi Krishna <sakshi.krishna@utdallas.edu></sakshi.krishna@utdallas.edu>
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General Course Information

Pre-requisites	CHEM 1311 General Chemistry I CHEM1312 General Chemistry II		
Co-requisites	BIOL 2111 Introduction to Modern Biology I Workshop		
Course Description	The course covers fundamental concepts in modern biology with an emphasis on molecular and cellular basis of biological phenomena. Lecture topics include the basic biochemistry of biological molecules, organization of prokaryotic and eukaryotic cells, cellular metabolism, introductory classical and molecular genetics, expression of genes and proteins, essentials of mammalian physiology, organizational and operation principles of endocrine, immune, and nervous systems, and selected aspects of developmental biology. In addition to lectures, topics are reviewed in workshop classes in small, informal meetings with discussions, question/answer sessions, and homework assignments.		

Course Objective	This course is organized to engage students to explore fundamental concepts in biology. The objective is to review the current concepts pertinent to molecular, cellular, and organism-level biology. Scientific methodology and experimentation that contributes to our understanding of structural and functional aspects of biological molecules and cells is stressed.		
	Upon completion of the course		
Learning	Students will be able to apply deductive reasoning and make		
Outcomes	arguments about major issues of a scientific nature.		
	 Students will understand the basics of cellular structures and 		

	biological processes including metabolism, photosynthesis, energy
	production, signal transduction, cell division, mechanisms of
	development, and cell differentiation.
•	Students will be able to relate genetic regulation; how genes
	function and how they are controlled



#		Dates	Reading	Lecture Topics and Exams
1.	М	8/22	Chaps. 1-2	The Tree of Life; Water and Carbon
2.	W	8/24	Chap. 3	Protein Structure & Function
3.	F	8/26	Chap. 3	Protein Structure & Function
4.	Μ	8/29	Chap. 4	Nucleic Acids
5.	W	8/31	Chap. 4	Nucleic Acids
6.	F	9/2	Chap. 5	Carbohydrates
7.	м	9/5		NO CLASS – LABOR DAY
8.	W	9/7	Chap. 5	Carbohydrates
9.	F	9/9	Chap. 6	Lipids and membranes
10.	M	9/12	Chap. 6	Lipids and membranes
11.	W	9/14	Chaps 1-6	EXAM 1
12.	F	9/16	Chap. 7	Inside the Cell
13.	м	9/19	Chap. 11	Cell-Cell Interactions
14.	W	9/21	Chap. 8	Energy and Enzymes
15.	F	9/23	Chap. 8	Energy and Enzymes
16.	Μ	9/26	Chap. 9	Respiration and Fermentation
17.	W	9/28	Chap. 9	Respiration and Fermentation
18.	F	9/30	Chap. 9	Respiration and Fermentation
19.	М	10/3	Chap. 10	Photosynthesis
20.	W	10/5	Chap. 10	Photosynthesis
21.	F	10/7	Chaps 7-11	EXAM 2
22.	М	10/10	Chap. 12	Cell Cycle
23.	W	10/12	Chap. 12	Cell Cycle
24.	F	10/14	Chap. 12	Cell Cycle
25.	М	10/17	Chap. 13	Meiosis
26.	W	10/19	Chap. 13	Meiosis
27.	F	10/21	Chap. 13	Meiosis
28.	M	10/24	Chap. 14	Mendel and the Gene
29.	W	10/26	Chap. 14	Mendel and the Gene
30.	F	10/28	Chap. 15	DNA Synthesis
31.	М	10/31	Chap. 15	DNA Synthesis

BIOL 2311 MODERN BIOLOGY I – LECTURE CLASS Topics and Tentative Schedule – Fall 2022

32.	W	11/2	Chap. 15	DNA Synthesis
33.	F	11/4	Chaps 12-15	EXAM 3
34.	М	11/7	Chap. 16	How Genes Work
35.	W	11/9	Chap. 16	How Genes Work
36.	F	11/11	Chap. 17	Transcription and Translation
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37.	М	11/14	Chap. 17	Transcription and Translation
38.	W	11/16	Chap. 17	Transcription and Translation
39.	F	11/18	Chap. 18	Bacterial Gene Expression
40.	М	11/22	NO CLASS	THANKSGIVING WEEK
41.	w	11/23	NO CLASS	THANKSGIVING WEEK
42.	F	11/25	NO CLASS	THANKSGIVING WEEK
43.	М	11/28	Chap. 18	Bacterial Gene Expression
44.	W	11/30	Chap. 18	Bacterial Gene Expression
45.	F	12/2	Chap. 19	Eukaryotic Gene Expression
46.	M	12/6	Chap. 19	Eukaryotic Gene Expression
47.	W		Chap. 19	Eukaryotic Gene Expression
48.	F	12/8	Chaps 16-19	EXAM 4
49.	Sat	12/9 11:59 pm	DEADLINE	Mastering Biology Homework Assignment

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

BIOL 2111 MODERN BIOLOGY I – WORKSHOP Topics and Tentative Schedule – Fall 2022

Week	Chapters	Topics
1	Chp 1	The Tree of Life
	Chp 2	Water and Carbon
2	Chp 3	Protein Structure & Function
	Chp 4	Nucleic Acids
3	Chp 5	Carbohydrates
	Chp 6	Lipids & membranes
4	Chp 7	Inside Cell
	Chp 11	Cell-Cell Interactions
5	Chp 8	Energy and enzymes
6	Chp 9	Respiration and fermentation
_	CI 10	
/	Cnp 10	Photosynthesis
8	Chp 12	Cell Cycle
	Chp 13	Meiosis
9	Chp 14	Mendel and the Gene
10	Chp 16	DNA Synthesis, How Genes Work
11	Chp 17	Transcription and Translation
12	Chp 18	Bacterial gene expression
13	Chp 18	Bacterial gene expression
14	Chp 19	Eukaryotic gene expression
15	Chp 19	Eukaryotic gene expression

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Course	Policies

	Assessment is based on scores from 4 lecture class exams and online homework assignment (Mastering Biology). The exams constitute 80% of the course grade, and homework assignment constitutes 20% of the course grade.
	Each exam covers questions from specified chapter topics as outlined in the schedule. Exams may have 50-60 questions with multiple choice and true/false answers. Exams require scantron form; bring a blank wrinkle-free Scantron F-1712-PAR-L Form for each exam. Comet ID card must be presented at the exam. There is no comprehensive final exam.
	Mastering Biology online homework assignment covers questions from chapter 1 through chapter 19 of the textbook; Biological Science, 7th edition, Published by Pearson. All assignments must be completed before the deadline 12/09/22 at 11:59pm. The deadline is strictly enforced, no exception.
Exams, Homework	Completion of all four exams and the homework assignments is required for completion of the course. No grade is dropped. The score for missed or not taken exam is recorded "zero". Homework assignment scores are finalized at the deadline. Assignments not completed before the deadline score "zero". There is no re-do, and there is no extra credit.
Assignment, and Grading	Scores and posted letter grades are finalized within 1 week of submission and no score change will occur after.
Criteria	The midterm letter grades are determined based on the class average from the exam scores available at the time of midterm grade posting. An updated tentative letter grade distribution is posted after exams 1, 2, and 3 according to class average. Final letter grade distribution at the end of the semester may be different than the midterm grades as well as tentative grades posted during the semester since final letter grade distribution is determined based on the overall class average from all four exams and the homework assignment. Final letter grade distribution is posted according to 4 exam class average plus homework assignment class average. Typically, overall class average from exams (80%) and homework (20%) determines the median of the grade curve, and final letter grades are distributed accordingly.
	If overall average numerical score is fractional, it will be rounded off to the nearest integer value, i.e., 0.5 - 0.9 will be rounded up to the next highest whole number. For example, 84.5 would be rounded to 85 and the student would receive the letter grade corresponding to 85; but 84.4 would be rounded to 84 and the student would receive the letter grade corresponding to 84. Do not inquire special consideration as grades are distributed fairly and generously for all students and we do not make individual adjustments.

	Same letter grade is posted for both BIOL 2311 (lecture) and BIOL 2111 (workshop).
	Regular attendance to lecture and workshop classes are expected. Attendance and participation in class activities is reported to the registrar as mandated by the University. Absences may lower a student's grade as students who fail to attend lectures and workshops regularly usually invite scholastic difficulty. Lectures may include discussions and presentation of supplementary material; thus, class attendance and class participation are deemed essential.
Lecture and Workshop Attendance	Attendance record may be collected in class meetings. Forgery, misrepresentation, fabrication, or false and misleading report of attendance will be subject to disciplinary action under the Academic Dishonesty rules of the University of Texas at Dallas, Office of Community Standards and Conduct.
	Arriving to the classroom punctually and regularly attending to the class meetings is a part of your responsibility. Lateness or leaving the class early is not tolerated as it is disruptive to orderly and efficient conduct of the class. Do not disturb your peers or instructor during lectures. Distracting yourself and others during lectures is disruptive to the course conduct. Students who are distracting others or the instructor, and students who establish a trend of habitual lateness/chronic tardiness or leaving the class early are reported to the Dean of Students Office.
	Be very punctual on your class attendance on the exam days. Students arriving at the exams later than 15 min after the beginning of the regular exam start time will not be admitted to the exam. Students will not be admitted to the exams if any other student has completed and turned in exam at that time. There may not be a make-up exam for missed exams unless student provides documented excuse for the circumstance.
	While learning styles may be different, success in the course generally depends upon attendance and participation in the class meetings, asking questions, completing homework assignments, and reviewing the textbook chapters. Be diligent with your studies. It is difficult to catch up for an exam and homework if you fall behind.
Workshops	Weekly workshops are 75-minute-long review sessions where the course TAs discuss the material presented in lectures. Same letter grade is posted for both BIOL 2311 (lecture) and BIOL 2111 (workshop).
Supplemental Instruction	Supplemental Instruction (SI) is usually offered for this course. Attendance is voluntary. For information about the days, times, and locations for SI sessions, refer to: www.utdallas.edu/studentsuccess/leaders/si.html

Use of Electronic Devices	Use of all electronic devices including laptop computers, cellular telephones, PDAs, headphones, pagers are distractive to teaching and learning process and they are not permitted. Such devices must be turned off and put away during lectures and exams. At the discretion of the Professor, laptop computers may be allowed during class only for taking notes, or following the lecture slides. If you are using a computer for taking notes, you may be asked to sit separately in the classroom as to not unduly distract, interfere or disrupt your classmates. Students who engage in use of electronic devices for activities unrelated to the learning experience will be reported to the Dean of Students Office for academic disciplinary action. Additionally, please avoid personal communication unless it is an emergency as not to disturb other students and disrupt class flow.
Make-up exams	Make-up exams may be scheduled only for the most extreme of documented circumstances (event of illness, official university business, or professional school interviews). Missed/not-taken exam score is recorded as zero, "0". Students requesting to take make-up exam must document their circumstance that affect the completion of an exam. Official document(s) must be submitted for evaluation by the Professor, and Dean of Undergraduate Education, as well as UT Dallas - Office of Community Standards and Conduct. Most "return to work" slips do not indicate that there was a sickness or emergency, and they do not specify the date and reason for visit to a doctor. Official documentation must indicate the date and reason of absence, or a documentation indicating attendance to a school interview, or demonstrating an extraordinary/emergency. Since religious holidays are known in advance, student must inform the instructor about these holidays in the beginning of the semester. Being overwhelmed is not an excuse for make-up exam or later exam request since it probably indicates that student has not kept up with the material and attempting to learn the material at the last minute. Students taking late exams should not be able to benefit from the extra time that other students do not have. If make-up exam score is significantly higher than the class average for that exam and/or student's previous exam(s), the average of student's other exams may be assigned as the make-up exam grade. Students can maintain their average but not improve upon it by taking make up exams. Make up exams will not be given earlier than actual date and time of testing. Make-up exam say be different from regular exams and may include a verbal component and/or drawing of structures. There may not be any make-up exam for the last exam/exam 4 as due to final grade submission.
Incomplete Grades	Students who unavoidably miss exam can be granted incomplete grades (I) at the discretion of the instructor and only if 75% of the course work has been completed and the student cannot complete all requirements by the end of

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	the semester. Please be aware, incomplete grade can affect/delay graduation if it is requested in the same semester student has applied for graduation.
	An incomplete course grade (I) must be completed within the time specified by the instructor, not to exceed eight weeks from the first day of the subsequent long semester. Upon completion of the required work, incomplete may be converted into a letter grade (A through F) by the instructor. If the grade of Incomplete is not removed by the end of the specified period, it will automatically be changed to F.
	Students may obtain a petition/documentation form for an Incomplete in the office of the student's Undergraduate Associate Dean. The form is to be submitted to the instructor from whom the Incomplete is sought. Extension beyond the specified limit can be made only with the permission of the instructor, the student's Associate Dean and the Undergraduate Dean. A student may not re-enroll in a course in which a grade of 'I' remains.
Intellectual Property and Copyrighted Material	It is the policy of The University of Texas at Dallas to adhere to the requirements of the United States Copyright and Intellectual Property Laws. Content of the course, including, but not limited to, course outlines, class notes, PowerPoint slides, lecture recordings, virtual meetings, exams and assignments may contain copyright-protected material and/or intellectual property, and therefore, they should not be distributed, shared in any public domain, posted on a third-party website, or sold. Intellectual property and copyright infringements are treated as civil – intellectual property disputes. Course instructor is the exclusive owner of copyright in the created course materials, including presentations, Power Point slides, recordings, tests, exams, quizzes, assignments, study guides, outlines, discussions on virtual meetings, and similar materials. The course materials are only used in the course allowed by the instructor, and they are protected by United States copyright law [Title 17, U.S. Code]. Access to the course material is allowed only to the students within the course environment and students' use of the copyrighted material is governed by United States copyright law. Students may not distribute, publish, or share the course content in any other form or media, nor may not knowingly allow or facilitate others to reproduce, distribute, or share course materials. This includes providing any part of the course materials to commercial course material suppliers, such as Chegg, Slader, Course Hero, or other similar services, including blogs and non-commercial services. Students who publicly distribute, share, or display or help others publicly distribute, share or display copies or modified copies of an instructor's course materials will be in violation of university policies covered in the Student Code of Conduct of The University of Texas at Dallas.
Use of	UT Dallas information technology resources and eLearning platform are
Information	primarily provided for university-related purposes and should be used in a
Resources,	manner consistent with the University's academic, teaching, learning,

eLearning and	research, and administrative missions. The continuing ability to use these
Course Content	resources is contingent upon their appropriate and responsible use. Students
	are expected to be good stewards of the University's information resources
	and data, and use them in a safe, responsible, ethical, and legal manner.
	Students at the university community agree to respect the intended usage of
	the University's information resources, eLearning, and course content and
	abide by the norms of behavior with regard to technology and online course
	access.
	Students' responsibilities include compliance with all federal. State of Texas.
	UT Dallas policies, and other applicable laws, regulations, contracts—
	including university or third-party copyright, patents, trademarks, software
	license agreements, and university policies regarding electronic
	communications, protection of course content and institutional data, and
	operation of information technology resources.
	All correspondence must be transmitted from the student's UTD email
	account. This requirement allows university personnel to maintain a high
	degree of confidence in the identity of the individual corresponding with a
	university official and in the security of the transmitted information.
	Violations of the laws, policies and regulations of the University's
	information resources, misuse or abuse of course content and eLearning
	resources may result in disciplinary action up to and including suspension or
	revocation of computer accounts and access to networks, non-
	reappointment, discharge, dismissal, and/or legal action.
	The University of Texas at Dallas recognizes the value and efficiency of
	communication between faculty/staff and students through electronic mail.
	At the same time, email raises some issues concerning security and the
	identity of each individual in an email exchange. The university encourages
e-Mail Use	all official student email correspondence be sent only to a student's U.T.
• • • • •	Dallas email address and that faculty and staff consider email from students
	official only if it originates from a UTD student account. This allows the
	university to maintain a high degree of confidence in the identity of all
	individual corresponding and the security of the transmitted information.
	A student at the university neither loses the rights nor escapes the
	responsibilities of citizenship. He or she is expected to obey federal, state,
	and local laws as well as the Regents' Rules, university regulations, and
Student	administrative rules. Students are subject to discipline for violating the
Conduct and	standards of conduct whether such conduct takes place on or off campus, or
Discipline	whether civil or criminal penalties are also imposed for such conduct.
•	Any violation of the Student Code of Conduct is investigated and handled by
	the Dean of Students. Violation that results in penalty includes but is not
	limited to the use attempted use or providing of unauthorized materials
	innited to the use, attempted use, or providing of undutionized indicentials,

	information, or study aids in any academic exercise; the use of sources
	beyond those authorized by the instructor in completing any academic
	exercise. Any type of
	discussion about questions and answers on assignments/tests, including
	those held in social media platforms and other electronic chat groups, may
	be considered cheating. Failure to submit a test within the timeframe
	allocated by the professor, whether in the classroom or in the University
	testing center may be considered cheating. Academic exercise includes all
	forms of work submitted for credit or hours.
	The faculty expects from its students a high level of responsibility and
	academic honesty. Because the value of an academic degree depends upon
	the absolute integrity of the work done by the student for that degree, it is
	importative that a student demonstrate a high standard of individual banar in
	Imperative that a student demonstrate a high standard of individual honor in
	nis or her scholastic work.
	Scholastic dishonesty includes, but is not limited to, statements, acts or
	omissions related to applications for enrollment or the award of a degree,
	and/or the submission as one's own work or material that is not one's own.
Academic	As a general rule, scholastic dishonesty involves one of the following acts:
Integrity	cheating, plagiarism, collusion and/or falsifying academic records. Students
integrity	suspected of academic dishonesty are subject to disciplinary proceedings.
	Plagiarism, especially from the web, from portions of papers for other
	classes, and from any other source is unacceptable and will be dealt with
	under the university's policy on plagiarism (see general catalog for details).
	This course will use the resources of turnitin.com, which searches the web
	for possible plagiarism and is over 90% effective.
	Please review the policies under the UT Dallas Community Standards and
	Conduct.
	The administration of this institution has set deadlines for withdrawal of any
	college-level courses. These dates and times are published in that semester's
	course catalog. Administration procedures must be followed. It is the
Withdrawal	student's responsibility to handle withdrawal requirements from any class. In
from Class	other words, we cannot drop or withdraw any student. You must do the
	proper paperwork to ensure that you will not receive a final grade of "F" in a
	course if you choose not to attend the class once you are enrolled
	It is the student's responsibility to notify in advance and identify
	himself/herself to Office of Student Accessibility (OSA) and to provide
	documentation of a disability. Strict documentation guidelines exist for
Disability	different types of disabilities. The student must meet with OSA, who
And	determines appropriate accommodations after reviewing documentation
Accessibility	repared by a licensed professional
Services	prepared by a licensed professional.
	Instructors connet erronge accommedations for a student who does not
	instructors cannot arrange accommodations for a student who does not
	identify nimself/herself as a student with a disability and has not provided

	the faculty member with an Accommodation Letter from OSA. It is the student's responsibility to obtain the paperwork from OSA and request from OSA that an official confirmation letter regarding their accommodation is sent directly to the professor.
Emotional Distress Support and Student Counseling Services	Isolation diminished social interactions, over-reliance on technology and concerns about future are emotional stress factors. These factors can impact mental health, create anxiety, sense of loss, lack of enthusiasm, desperation, and doubtfulness about abilities and feeling. Emotional distress shows different in different people. Some of the common reactions include difficulty in concentration, change in appetite, exhibition of reckless behavior, withdrawal from communication, and sleep problems. Please contact UT DALLAS STUDENT COUNSELING SERVICES CENTER (SCC) if you or anyone you know is emotionally impacted by pandemic or any other concerns: https://counseling.utdallas.edu/ Any student who would like to meet with an SCC staff member for support today are invited to contact SCC at counselingcenter@utdallas.edu. SCC crisis line 972-UTD-TALK is also available to students 24/7.

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