

BIO 2600 (Introduction to Cell Biology)

Course Syllabus

Winter, 2019

Instructor: Dr. Martin Crozier
Building and Office number: Biology Building Room (4109)
Email address*: am0246@wayne.edu

CLASS MEETING LOCATION

100 Lecture Hall
[General Lectures \(100 LECT\)](#)

CLASS MEETING TIME

Tuesday, Thursday 10:00-11:15 AM

COURSE DESCRIPTION

Bio 2600 is an advanced introduction to the structural and functional biology of the eukaryotic cell. Molecular, biochemical, and functional material learned in other courses reviewed and synthesized as it related to the cell.

COURSE PREREQUISITES

Prereq: BIO 1500 and BIO 1510 with grades of C-minus or above; and consent of department. Students must meet with an undergraduate advisor to receive consent to register for BIO 2600.

OFFICE HOURS

Tuesdays and Thursdays immediately after class

EXAMS

There will be 4 exams (three in-class midterm examinations and one final exam).

iCLICKER/REEF QUESTIONS

Throughout the semester and during every lecture I will present questions that students will answer using their iClickers or REEF accounts. These questions are worth **1 point each**: 0.5 pts for answering and an additional 0.5 pt for correct answers.

COURSE CREDITS

This is a 3.00 credit course.

TEXT/BOOK:

Essential Cell Biology (4th edition), by Alberts, Bray, Hopkin, Johnson, Lewis, Raff, Roberts, and Walter. ISBN: 9780815344544. **REQUIRED.**

EXAM DATES

There will be 3 closed-book midterm examinations, given in class (see below).

The final exam (Exam IV) is a cumulative exam held at 8:00-10:00 am Tuesday April 30th, 2019.

EXAM CONFLICTS

The final exam is scheduled as designated in the Schedule of Classes for this term. No other time for the final exam will be available, and **no exceptions** will be made for conflicts such as student travel plans. Students are not required to take more than two final exams in one day. A student with more than two scheduled final exams on one day may (not must) petition to the instructor of the course with the lowest number students enrolled (this course is open to 325 students), to arrange an alternate time for the final exam. Such petitions must be presented to the instructor as early as possible and made at least one week prior to the scheduled date of the final exam.

EXAM FORMATS

The exams will include **multiple-choice** questions, and will **include images**. All exams will be closed book and held in class. All you will need is a few sharp pencils, a good eraser, your One Card, and Scantrons (I will provide Scantrons for all Exams). No electronic devices of any kind will be allowed unless indicated otherwise in advance, and cell phones must be turned off. Anyone who leaves the exam room will not be allowed back in. Late-arriving students should know that admittance into the exam room will not be allowed after 20 minutes and/or the first student has left the room. The instructor will arrange a structured seating plan for the exam.

IClicker/REEF QUESTIONS:

I do not (formally) take attendance to lectures. iClicker questions will be offered randomly throughout the semester (probably 3-5 questions every class*), and will test you on material pertaining to the lecture topic for that class session; therefore attendance is **HIGHLY** recommended. There are no make-up opportunities for missed iClicker/REEF questions as part of their purpose is to motivate participation in the class. Students arriving late for class will not be able to answer missed questions retroactively. I reserve the right to present questions at anytime during any given lecture. Details will be discussed thoroughly during the first week of class.

DROPPING LOW SCORES:

I will automatically drop your lowest score from Exams I, II, and/or III. Exam IV (the Final Exam), will count regardless of your performance on that exam. Failing to attend an exam will result in a score of '0'. **No medical notes or documentation for absences is required. NO MAKE-UP OPPORTUNITIES** for missing an exam. The score will be considered your lowest grade and dropped. Start preparing now for your first exam!

GRADING:

A total of 250 points are available to be earned. There are no opportunities for extra credit or alternative assignments. Course grades are determined from total point accumulation at the end of the semester, with final letter grades based generally on a strait scale; modified if appropriate depending on the class average and point distribution. I will automatically drop your lowest score from Exams I and II and III. Your score for the Final Exam (Exam IV) will count even if it is your lowest score.

Exam I:	50
Exam II:	50
Exam III	50
iClicker/REEF:	50*
Exam IV (Final):	100
Total	300
Lowest score from Exam I, II, and III	-50
Total	250*

There is no extra credit under any circumstances

Your final course grade will be decided as follows:

Percentage	Grade	Percentage	Grade	Percentage	Grade
93-100	A	80-82.99	B-	66-69.99	D+
90-92.99	A-	76-79.99	C+	63-65.99	D
86-89.99	B+	73-75.99	C	60-62.99	D-
83-85.99	B	70-72.99	C-	<59.99	F

EXAM GRADE DISPUTES / CHALLENGE OPTION

Students will have until the next exam after the return of an exam or quiz to challenge a grade for any question. Failure to challenge the grade within this period indicates a willingness to accept the grade as is. The challenge should consist of a written description (or in-person explanation) of why the answer is correct based on other published material that you cite.

CHEATING

A strict zero-tolerance policy for cheating will be enforced. Anyone caught cheating on an exam will receive a score of 0 (zero) for that portion of the grade. Students found to be cheating during an exam (using a “cheat sheet”, looking at another’s paper, or allowing another to look at yours), will receive a zero for that test with no opportunity to drop or replace that score. A second episode of cheating will result in a grade of F for the course and may also result in initiation of university disciplinary action.

POSTING OF EXAM GRADES

I will post Exam grades on Canvas by Student ID Number, as soon as possible, following the exam. Select ‘Grades’ on Canvas to view. I will also post an answer key.

SPECIAL CONSIDERATIONS FOR INDIVIDUALS WITH DISABILITIES

If you have a physical or mental impairment that may interfere with your ability to complete the requirements for this course successfully, you are invited to contact Educational Accessibility Services (1600 David Adamany Library; 577-1851) to discuss appropriate accommodations on a confidential basis.

RELIGIOUS HOLIDAY CONFLICTS

If you have a conflict with any of the scheduled class or exam times due to religious reasons, you must notify me in writing by class time or as soon as possible. Any student unable to take a final exam at the scheduled time due to religious convictions shall petition the instructor in advance of the final exam to arrange an alternate time. You must notify me of any such conflict by Feb. 1st, 2019

ADD/DROP POLICY

See academic calendar for dates pertaining to add/drop class at:

<https://wayne.edu/registrar/registration/calendar18-19/>

Also see <http://reg.wayne.edu/> for student help related to registering, dropping/withdrawing, transcript requests, tuition and fees, calendars and deadlines, etc.

UNEXPECTED UNIVERSITY CLOSURES.

If the University is officially closed on an exam day, the exam will be held on the next regularly scheduled class day. Closure of the University is announced by the following:

1. the University Newline (313) 577-5345 *
2. WSU Homepage (www.wayne.edu) *
3. WSU Academica (academica.wayne.edu) *
4. WDET-FM (Public Radio 101.9)
5. by other local radio and television stations

* Note: The information on closures and class cancellations is likely to be found at these locations before it is broadcast by local radio and television stations

*Note: Extension centers are part of Wayne State University. If the university closes than the extension centers close. For Harper Woods, classes maintain their regular schedule even if the center is closed (i.e., Harper Woods High Scholl may close for the day, but the center is still open in WSU is not closed).

OTHER

Please turn all cell phones off during class and during exams (unless otherwise instructed, e.g., for REEF polling).

Any specific issue not covered by this syllabus will be resolved using University policies.

Disputes that cannot be resolved following the guidelines present in this syllabus will be resolved by following the guidelines of the University “Student Due Process”.

COURSE WEB SITE

You can go to academica and click on the Canvas logo at the top:



Or go to canvas.wayne.edu

This course should appear in your menu if you are correctly registered.

We will be learning the navigation of canvas together. Go to your ‘Dashboard’ to select this course. Also be sure to go to ‘Account’ and personalize your ‘Settings’ and ‘Notification’ (to be discussed in class).

It is the responsibility of the student to ensure that they have the appropriate computer capabilities (programs), and access to a computer, for downloading the material. The preparation and presentation of the aforementioned material is a privilege for the student, and not a necessary requirement on the part of the teacher. Students are able to succeed fully in this class without access to the aforementioned material, however, accessing the information may facilitate success in the class.

Important dates to keep track off:

University Calendar:

<https://wayne.edu/registrar/registration/calendar18-19/>

Course Specific Dates:

Exam Dates:

Exam I: February 5th (Tuesday)

Exam II: March 7th (Thursday)

Exam III: April 4th (Thursday)

Exam IV (Final): April 30th 8:00-10:00 AM Tuesday

	Weekday	Date	Chapter #
Unit 1	Tues	Jan. 8 th	Introduction and Course Syllabus
	Thurs	Jan. 10 th	1: Intro to Cells
	Tues	Jan. 15 th	6: DNA Replication, Repair, Recombination
	Thurs	Jan. 17 th	6: DNA Replication, Repair, Recombination
	Tues	Jan. 22 nd	7: From DNA to Protein
	Thurs	Jan. 24 th	7: From DNA to Protein
	Tues	Jan. 29 th	8: Control of Gene Expression
	Thurs	Jan. 31 st	8: Control of Gene Expression
	Tues	Feb. 5th	Exam I
Unit 2	Thurs	Feb. 7 th	11: Membrane Structure
	Tues	Feb. 12 th	11: Membrane Structure
	Thurs	Feb. 14 th	12: Transport Across Cell Membranes
	Tues	Feb. 19 th	12: Transport Across Cell Membranes
	Thurs	Feb. 21 st	13: How Cells Obtain Energy from Food
	Tues	Feb. 26 th	13: How Cells Obtain Energy from Food
	Thurs	Feb. 28 th	14: Energy Generation in Mitochondria
	Tues	Mar. 5 th	14: Energy Generation in Mitochondria
	Thurs	Mar. 7th	Exam II
Unit 3	Tues	Mar. 12th	Spring Break
	Thurs	Mar. 14th	Spring Break
	Tues	Mar. 19 th	15: Intracellular Compartments and Protein Transport
	Thurs	Mar. 21 st	15: Intracellular Compartments and Protein Transport
	Tues	Mar. 26 th	16: Cells Signaling
	Thurs	Mar. 28 th	16: Cells Signaling
	Tues	April 2 nd	16: Cells Signaling
	Thurs	April 4th	Exam III
Unit 4	Tues	April 9 th	17: Cytoskeleton
	Thurs	April 11 th	17: Cytoskeleton
	Tues	April 16 th	18: The Cell Division Cycle
	Thurs	April 18 th	18: The Cell Division Cycle
	Mon	April 22nd	Last day of classes
	Tues	April 23rd	Study Day
	Tues	April 30th	Final Exam 8:00-10:00 AM