COURSE SYLLABUS
BIOL 682 – Advanced Eukaryotic Cell Biology
George Mason University, Fall 2024
Asynchronous course
3.0 Credit Lecture Course

Instructors: Aarthi Narayanan, Ph.D; (Course material and content)
Yuliya Dobrydneva, Ph.D (Blackboard questions, testing and grading)
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This class is an asynchronous class. Each week as indicated below, the slide deck relevant to the topic will be uploaded on to blackboard. Course material on Bb opens up on Monday.

A kaltura recording of the slide deck being described and explained will also be uploaded. Students are at liberty to look into those materials based on their time availability, as long as they are prepared to take the exams that follow. All materials will remain accessible in Blackboard during the entire course timeline.

COURSE SCHEDULE Fall 20203

Date (week of)	**LECTURE TOPIC**
August 26	Transcriptional Control of Gene Expression (Part I)
September 2	Transcriptional Control of Gene Expression (Part II)
September 9	Post Transcriptional Gene Control
Sept 16	**No material upload - study time**
Sept 23	**EXAM 1**
September 30	Cytoskeleton - Actin
October 7	Cytoskeleton - Microtubules
October 14	**No material upload – study time**
October 21	Vesicular traffic, secretion and endocytosis
October 28	Moving Proteins into Membranes & Organelles
November 4	**No material upload - study time**
November 11	**EXAM 2**
Nov 18	Signal Transduction & Short-Term Cellular Responses
Nov 25*	Signal transduction – part 2
December 2	Cell cycle and apoptosis
December 9	**No material upload - study time**
Dec 13	**EXAM 3 Dec 11-Dec 18 , TBA**

*This week is the week of thanksgiving. Due to the course being asynchronous, we will upload the study material and class material during this regular time anyway for students to access whenever they can, and the material will be available until the end of the course.

Course schedule is subject to change. Please stay tuned for Bb announcements.

Office hour/Q&A sessions by zoom will be set up on the following dates to help with any clarifications prior to the exam. A zoom link will be made available prior to these sessions. Please stay tuned for announcements on date and time.

If students have questions or need clarifications beyond the Q&A times provided above, they are encouraged to email an appropriate instructor with their questions. Please be sure to email correct instructor. The instructors will promptly respond to the queries.

COURSE LOGISTICS:

Recommended Textbook and Links to Companion Websites:

Molecular Cell Biology, 7th Edition.
Lodish, Berk, Krieger, Kaiser, Scott, Bretscher, Ploegh, Matsudaira

7th edition companion website:
http://bcs.whfreeman.com/lodish7e/

While this is a good book to look into, there isn't a need to purchase the book. Lectures will be put up both as power point presentations and as video recordings.

Course Pre-requisites or Permission of Instructor:

To enroll in BIOL 682 you must have completed BIOL 484 or an equivalent transferred course credit in introductory Molecular Cell Biology; CHEM 313, 314 or equivalent transferred course credits in Biochemistry. In lieu of these course pre-requisites, registration will only be possible by first obtaining permission of the instructor.
Course communications are conducted mainly via Bb announcements. Please be sure you enable your school email address to receive these announcements. Failure to see the announcement is not a valid excuse.

Policies on Course Examinations:

- The class will consist of (3) take home examinations. All examinations will be put up on Monday morning of the exam week as indicated in the course overview table.
- Exams are administered via Bb only.
- Exams are open sources and untimed.
- **Important: All course communications will be conducted via Bb announcements**. **Please be sure that your mailbox is enabled to receive email messages from Bb.** Please refer to a computer center for help! Please check Bb announcements regularly, at least twice a week.

Grading:

Grading for this course will be based upon (3) in-class exams. Exams consist of multiple choice, short answer or matching questions. Each exam will account for 33.3% of your final grade. Exam questions may be taken from any material presented in lecture or in any assigned readings.

Exam 1	33.3%
Exam 2	33.3%
Exam 3	33.3%

Grading scale: Students will receive a letter grade based on a 100-pointscale.
An A+ is not awarded as a final grade.
No extra credit is allowed in this course!

Letter grades for the course will be based on an overall % for the course and assigned as follows

Grades Scored Between				Will Equal
92	% and	100	%	A
90	% and Less Than	92%		A-
87	% and Less Than	90%		B+
84	% and Less Than	87%		B
77	% and Less Than	84%		B-
60	% and Less Than	77%		C
0	% and Less Than	60%		F

Grades will not be rounded up. Example: if you receive 89.99, your grade will be B+, not an A-.
The exam structure and grading may be subject to change. If any change is implemented, prior notice will be provided.

- **Expectations:**
  Let the instructor know of your needs and constraints as early as possible prior to the assignment due dates.
  Notify your instructor **during the first week of the semester** regarding course schedule conflicts due to military obligations and/or religious observances.
  Any notifications beyond the first week of classes or after the exam/quiz due date has passed may not be approved and grade of zero will be entered.
- **LATE POLICY: PLEASE READ CAREFULLY!**
  • Students should make every effort to submit/complete assignments on time.
  • Any assignment that is not turned in on time, without prior arrangements with the instructor, will result in a zero grade for this assignment
  • Any arrangements to extend a deadline for an assignment must be made prior to the deadline.
  • No extension will be granted after the deadline.
  • Each student is allowed maximum of two (2) extensions per semester. Other requests may not be granted and grade of zero will be entered
  • Any assignment/assessment that has not been completed by the end of the semester will receive a grade of zero.

Required Equipment –Since this is an online course and all assessments are complete through the computer,

you need to have a computer with a reliable internet connection. It is a student's responsibility to insure a stable internet connection for lectures and exams.
All classwork is conducted on Bb. Please be sure you are familiar with Bb operations.

Observance of the George Mason University Honor Code:

- All students enrolled in this course will be subject to strict adherence to the GMU Honor Code that both protects honest students and maintains the academic integrity and reputation of George Mason University, and the value of the degree herein earned.

- The Instructor is committed to the support of both personal honesty and refusal to tolerate in any manner dishonesty in others in accordance with the University Honor Code. Students are encouraged to report any suspected Honor Code violations to the Instructor and/or University Honor Code Committee.