



SYLLABUS

BIOL 3073 Molecular Biology I Fall 2019

Instructor: Harriette Howard-Lee Block, Ph.D.
Section # and CRN: P01 CRN 13022
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Office Hours: M and W 9:00 am – 10:00 am
Mode of Instruction: Face-to Face

Course Location: O'Banion Science – A101
Class Days & Times: MWF Lecture: 1pm – 1:50pm
Catalog Description: Molecular Biology I. (3-0) Credit 3 semester hours. The dynamics of carbohydrate, fat, protein and nucleic acid metabolism, recombinant DNA revolution, gene structure and function in specialized eukaryotic systems.

Prerequisites: Organic Chemistry I and II
Co-requisites:

Required Texts: Lehninger *Principles of Biochemistry*, 7th Edition, Authors-Nelson and Cox

Recommended Texts:

Student Learning Outcomes:

	Upon successful completion of this course, students will be able to:	Program Learning Outcome # Alignment	Core Curriculum Outcome Alignment
1	Demonstrate knowledge of thermodynamics.	1, 3	Discipline Specific Knowledge
2	Demonstrate an understanding of oxidation and reduction reactions in metabolic pathways.	1, 3 and 4	Discipline Specific Knowledge
3	Demonstrate knowledge of cellular metabolism.	1, 3 and 4	Integration of Broad Knowledge
4	Demonstrate knowledge of oxidative phosphorylation and photophosphorylation	1, 3 and 4	Discipline Specific Knowledge
5	Demonstrate knowledge of an understanding of major enzymatic cofactors and classes of biochemical reactions	3	Discipline Specific Knowledge
6	Demonstrate critical thinking skills and scientific problem solving skills to make informed decisions.	1, 5	Critical Thinking, Problem Solving

Major Course Requirements

Method of Determining Final Course Grade

Course Grade Requirement	Value	Total
1) Major Exams (2)	66.6%	200
2) Final Exam	33.4%	100
3) Quizzes	Extra Credit	
Total:	100%	300pts

Grading Criteria and Conversion

- A = 100-90pts.
- B = 89-80pts
- C = 79-70pts
- D = 69-60pts
- F = 59-60pts

Detailed Description of Major Assignments:

Assignment Title or Grade Requirement	Description
Chapters 13 and 17	Exam 1
Chapter 18	Exam 2
Chapter 19	Exam 3 Final Exam

Course Procedures or Additional Instructor Policies

Taskstream

Taskstream is a tool that Prairie View A&M University uses for assessment purposes. One of your assignments may be considered an "artifact," an item of coursework that serves as evidence that course objectives are met. More information will be provided during the semester, but for general information, you can visit Taskstream via the link in eCourses.

Semester Calendar (Tentative)

Week One:	Introduction
Topic Description	
Readings:	M Chapter 13 W Chapter 13 F Chapter 13
Week Two:	
Topic Description	
Readings:	M Chapter 13 W Chapter 17 F Chapter 17
Week Three:	
Topic Description	
Readings	M Chapter 17 W Chapter 17 F Chapter 17
Week Four:	
Topic Description	
Readings	M Chapter 17 W Chapter 17 F Exam I (Chapter 13 and 17)
Week Five –Ten:	
Topic Description	
Readings	M Chapter 18 W Chapter 18 F Chapter 18
Week Eleven:Sixteen:	
Topic Description	
Readings	M Chapter 19 W Chapter 19 F Chapter 19

Student Support and Success

John B. Coleman Library

The library and its partners have as their mission "to provide resources and instructional material in support of the evolving curriculum, as a partner in Prairie View A&M University's mission of teaching, research, and service" and to support the University's core values of "access and quality, diversity, leadership, relevance, and social responsibility" through emphasis on ten key areas of service. It maintains library collections and access both on campus, online, and through local agreements to further the educational goals of students and faculty.

Center for Academic Support

The Center for Academic Support (CAS) offers Tutoring via peer tutoring. The services include workshops (i.e., Save My Semester, Recalculate Your Route), seminars (i.e., Tools You Can Use: TI-84), group review sessions (i.e., College Algebra Topic Reviews, GRE Preparation), group study opportunities (i.e., TSIA, HESI, Study Break, Exam Cram), and test-taking strategies (How to take Notes, Study Buddy, 5 Day Study Guide). The Tutoring Center is a nationally certified tutoring program through the National Tutoring Association. The peer tutors are trained and certified by the coordinator each semester. Location: J.B. Coleman Library

COMPASS

The Center for the Oversight and Management of Personalized Academic Student Success (COMPASS) is designed to help Prairie View students in their second year and beyond navigate towards graduation by providing the following services: Academic Advisement, Targeted Tutorials for Personalized Learning, Campus-Wide Referrals, and Academic & Social Workshops. Location: J.B. Coleman Library.

Writing Center

The Writing Center provides student consultants on all aspects of the writing process and a variety of writing assignments. Writing Center consultations assist students in such areas as prewriting, brainstorming, audience awareness, organization, research, and citation. Location: Hilliard Hall 121

University Rules and Procedures

Disability statement (See Student Handbook):

Students with disabilities, including learning disabilities, who wish to request accommodations in class should register with the Services for Students with Disabilities (SSD) early in the semester so that appropriate arrangements may be made. In accordance with federal laws, a student requesting special accommodations must provide documentation of their disability to the SSD coordinator.

Academic misconduct (See Student Handbook):

You are expected to practice academic honesty in every aspect of this course and all other courses. Make sure you are familiar with your Student Handbook, especially the section on academic misconduct. Students who engage in academic misconduct are subject to university disciplinary procedures.

Forms of academic dishonesty:

1. Cheating: deception in which a student misrepresents that he/she has mastered information on an academic exercise that he/she has not mastered; giving or receiving aid unauthorized by the instructor on assignments or examinations.
2. Academic misconduct: tampering with grades or taking part in obtaining or distributing any part of a scheduled test.
3. Fabrication: use of invented information or falsified research.
4. Plagiarism: unacknowledged quotation and/or paraphrase of someone else's words, ideas, or data as one's own in work submitted for credit. Failure to identify information or essays from the Internet and submitting them as one's own work also constitutes plagiarism.

Nonacademic misconduct (See Student Handbook)

The university respects the rights of instructors to teach and students to learn. Maintenance of these rights requires campus conditions that do not impede their exercise. Campus behavior that interferes with either (1) the instructor's ability to conduct the class, (2) the inability of other students to profit from the instructional program, or (3) campus behavior that interferes with the rights of others will not be tolerated. An individual engaging in such disruptive behavior may be subject to disciplinary action. Such incidents will be adjudicated by the Dean of Students under nonacademic procedures.

Sexual misconduct (See Student Handbook):

Sexual harassment of students and employers at Prairie View A&M University is unacceptable and will not be tolerated. Any member of the university community violating this policy will be subject to disciplinary action.

Attendance Policy

Prairie View A&M University requires regular class attendance. Excessive absences will result in lowered grades. Excessive absenteeism, whether excused or unexcused, may result in a student's course grade being reduced or in assignment of a grade of "F". Absences are accumulated beginning with the first day of class.

Student Academic Appeals Process

Authority and responsibility for assigning grades to students rests with the faculty. However, in those instances where students believe that miscommunication, errors, or unfairness of any kind may have adversely affected the instructor's assessment of their academic performance, the student has a right to appeal by the procedure listed in the Undergraduate Catalog and by doing so within thirty days of receiving the grade or experiencing any other problematic academic event that prompted the complaint.

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TECHNICAL CONSIDERATIONS

Minimum Recommended Hardware and Software:

- Intel PC or Laptop with Windows 7; Mac with OS X; Smartphone or iPad/Tablet with Wi-Fi
- High speed Internet access
- 8 GB Memory
- Hard drive with 320 GB storage space
- 15" monitor, 800x600, color or 16 bit
- Sound card w/speakers
- Microphone and recording software
- Keyboard & mouse
- Most current version of Google Chrome, Safari, Internet Explorer or Firefox

Note: Be sure to enable Java & pop-ups

Participants should have a basic proficiency of the following computer skills:

- Sending and receiving email
- A working knowledge of the Internet
- Proficiency in Microsoft Word (or a program convertible to Word)
- Proficiency in the Acrobat PDF Reader
- Basic knowledge of Windows or Mac O.S.

Netiquette (online etiquette):

Students are expected to participate in all discussions and virtual classroom chats as directed. Students are to be respectful and courteous to others on discussions boards. Foul or abusive language will not be tolerated.

Technical Support:

Students should go to <https://mypassword.pvamu.edu/> if they have password issues. The page will provide instructions for resetting passwords and contact information if login issues persist. For other technical questions regarding eCourses, call the Office of Distance Learning at 936-261-3283

Communication Expectations and Standards:

Emails or discussion postings will receive a response from the instructor, usually in less than 48 hours. Urgent emails should be marked as such. Check regularly for responses.

Discussion Requirement:

Online courses often require minimal to no face-to-face meetings. However, conversations about the readings, lectures, materials, and other aspects of the course can take place in a seminar fashion. This will be accomplished by the use of the discussion board. The exact use of discussion will be determined by the instructor.

It is strongly suggested that students type their discussion postings in a word processing application and save it to their PC or a removable drive before posting to the discussion board. This is important for two reasons: 1) If for some reason your discussion responses are lost in your online course, you will have another copy; 2) Grammatical errors can be greatly minimized by the use of the spell-and-grammar check functions in word processing applications. Once the post(s) have been typed and corrected in the word processing application, it should be copied and pasted to the discussion board.

Academic Calendar – Fall 2019 *subject to change without notice

Aug. 26 Mon.	Instruction Begins, Tuition & Fees Payment Due Date and Late Registration Fee Begins (\$50.00)
Aug. 26-Sep 03	Attendance Reporting Period (NS/SH) Students who do not attend class during this period will have their courses removed and financial aid reduced or cancelled,
Aug 30 Fri.	Final Day to Register with Late Fee
Aug 31 Sat.	Final Day to Add a class or classes for credit
Sept. 02 Mon.	Labor Day Holiday (University Closed)
Sept. 11, Wed.	Census Date (12th Class Day) LAST DAY to Withdraw from Course(s) <u>without</u> academic Record
Sept. 12- Nov 01	Withdrawal from courses <u>with</u> academic record ("W")
Sept. 17 Tues.	Tuition payment deadline is 5 pm for all students who late registered and add/drop for fall semester.
Oct. 17- 19, Thurs.- Sat.	Mid-Semester Examination Period
Oct. 22, Tues.	Mid-Semester Grades Due
Oct. 14 – 19, Mon. – Sat.,	Homecoming Week
Oct. 31, Thurs	Last day to apply for fall graduation (ceremony participation)
Nov. 01 – Dec. 03 Friday thru Tues.	Apply for degree conferral only for fall graduation (NO ceremony participation or name listed in program)
Nov. 01, Fri.	Last day for withdrawal from course(s) with academic record ("W")
Nov. 11 Mon.	Priority Registration Period for continuing students for Spring 2020 and Summer 2020 Semesters
Nov. 18 Mon.	Pre-Registration for all other students for the Spring 2020 and Summer 2020 Semesters
Nov. 21-23, Thurs.- Sat.	Thanksgiving Holiday (University Closed)
Nov. 25, Mon.	Instruction Resumes
Dec 02 – Dec 03, Mon.-Tues.	Course Review Days [Classes must convene and instructors will prepare students for Final Exams]
Dec. 03, Tues.	Last Class Day for Fall 2019 Semester Last Day to Withdraw from the University (From All Courses) for the Fall 2019 Semester
Dec. 03, Tues.	Final Day to Submit Application for Tuition Rebate for Fall Graduation 2019 (Undergraduate Candidates)
Dec. 04 – Dec. 10, Wed.-Tues.	Final Examination Period
Dec. 12, Thurs.	Final grades due for graduation candidates by NOON
Dec. 14, Sat.	Commencement
Dec. 17, Tues.	Final Grades Due for All Other Students