



SYLLABUS

BIOL 1015 General Biology Spring 2019

Instructor: Anthony D. Hayes, MEd, PharmD, RPh
Section # and CRN: P02 CRN 26863 and P62 CRN 26865
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Office Hours: TR 4:00 pm – 5:00 pm; Sa 9:00 am – 9:50 am; and/or by appointment
Mode of Instruction: Face-to Face

Course Location: O'Banion Science – 315 (Lecture) and 315 (Lab)
Class Days & Times: TR Lecture: 5:30 pm – 6:50 pm and Sa Lab 10:00 am – 1:50 pm
Catalog Description: 1015. General Biology, (3-4) Credit 5 semester hours. Basis of life, cell theory, cell structure, energy transformation, reproduction, genetic variability and origins of diversity of organisms

Prerequisites: TSIA Reading College-Ready

Required Texts: Biology, 11th Edition, by Urry, Cain, Wasserman, Minorsky and Reece
 ISBN-13:978-0-134-09341-3

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 the chemical basis of life and cellular makeup.	1, 3	Discipline Specific Knowledge
2	Demonstrate an understanding of four major types of organic molecules.	1, 4	Discipline Specific Knowledge
3	Demonstrate knowledge of cellular metabolism.	1, 3 and 4	Integration of Broad Knowledge
4	Demonstrate an understanding of photosynthesis.	1, 3 and 4	Discipline Specific Knowledge
5	Demonstrate knowledge of the basis of inheritance.	2	Discipline Specific Knowledge
6	Demonstrate laboratory investigations using safe, environmentally appropriate and ethical practices.	5	Ethical Decision Making and Problem Solving
7	Demonstrate critical thinking skills and scientific problem solving skills to make informed decisions.	1, 5	Critical Thinking and Problem Solving
8	Compose an oral scientific presentation using the scientific method.	5	Communication, Globalization and Cultural Diversity

Major Course Requirements

Method of Determining Final Course Grade

Course Grade Requirement	Value	Total
1) Major Exams & Projects	60%	600
2) Lab Reports & Case Studies	20%	200
3) Final Exam	20%	200
Total:	100%	1000 pts

Grading Criteria and Conversion

A = 100 – 90

B = 89 – 80

C = 79 – 70

D = 69 – 60

F = 59 – 60

Detailed Description of Major Assignments

Assignment Title	Description
Laboratory Safety	Exam 1
Taxonomy/Classification	Project
Chapters 0 – 4	Exam 2
Cell Models	Project
Chapters 0 – 8	Exam 3
Chapter 9	Exam 4
Chapters 0 – 12	Exam 5 (Final)

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 – Dates and Assignments are Subject to Change)

Week One (01/14/19)
Topic Description

Organization of Course and Scientific Concepts
T: Class Overview, Laboratory Safety & Equipment
W: **Lab Safety Video Questions due via eCourses**
R: Hazards and SDS Review, Scientific Notation & Significant Figures
Sa: Accuracy & Precision, Scientific Inquiry, Measurement and Density Labs

Week Two (01/21/19)
Topic Description

Evolution and the Themes of Biology
M: Martin Luther King, Jr. Holiday – **No Class**
T: Conversion Factors & Dimensional Analysis
W: **Scientific Reasoning Quiz due via eCourses**
R: The Themes of Biology & Evolution
F: **Scientific Measurement Quizzes (1&2) due via eCourses**
Sa: Biology & Evolution, **Lab Safety and Scientific Concepts Exam**

Week Three (01/28/19)
Topic Description

Chemical Context of Life
M: **Galapagos Islands Assignment due via eCourses**
T: Matter and Change, Atomic Structure
W: **12th Class Day – Last day to drop without academic record**
R: Atomic Structure and the Periodic Table
Sa: Isotopes and Half-Life Labs, Ions and Electron Configuration

Week Four (02/04/19)
Topic Description

Chemical Context of Life
M: **Isotopes Quiz due via eCourses**
T: **Electrons in Chemistry Quiz due via eCourses – No Class**
W: **Chemical Names and Formulas Quiz due via eCourses**
R: Chemical Bonding
Sa: Bonding, Molecular Geometry, Types of Chemical Reactions
(Taxonomy/Classification Projects Due)

Week Five (02/11/19)
Topic Description

Water and Life
M: **Chemical Bonds, Intermolecular Forces, and Molecular Geometry Quiz due via eCourses**
T: **Chemical Reactions Quiz due via eCourses – No Class**
R: St. Valentine's Day – **No Class**
Sa: Acids & Bases, Solutions, pH Lab

Week Six (02/18/19)
Topic Description

Carbon and the Molecular Diversity of Life
M: **Molar Calculations Quiz due via eCourses**
T: Hydrocarbons: Alkanes, Alkenes, and Alkynes
W: **Solutions Quiz and Acids & Bases Quiz due via eCourses**
R: Isomerism and Functional Groups
F: **Hydrocarbon Compounds Quiz due via eCourses**
Sa: Functional Groups and Carbohydrates

Week Seven (02/25/19) Topic Description	The Structure and Function of Large Biological Molecules M: Macromolecules Quiz and Carbohydrates Quiz due via eCourses T: Carbohydrates and Lipids W: Lipids Quiz due via eCourses R: Lipids and Proteins F: Cardiovascular Disease Case Study due via eCourses Sa: Chapters 0 – 4 Exam
Week Eight (03/04/19) Topic Description	A Tour of the Cell & Membrane Structure and Function (Midterm Week) M: Proteins Quiz due via eCourses T: Proteins & Nucleic Acids W: Nucleic Acids Quiz due via eCourses R: Membrane Structure and Function F: A Tour of the Cell Quiz due via eCourses Sa: Membrane Structure and Function (Cell Models Projects Due)
Week Nine (03/11/19) Topic Description	Spring Break T: Spring Break R: Spring Break Sa: Spring Break
Week Ten (03/18/19) Topic Description	Introduction to Metabolism M: Membrane Structure and Function Quiz due via eCourses T: Matter, Energy, and Thermodynamics W: An Introduction to Metabolism Quiz due via eCourses R: Matter, Energy, and Thermodynamics F: Cellular Respiration and Fermentation Quiz due via eCourses Sa: Enzymes Lab
Week Eleven (03/25/19) Topic Description	Cellular Respiration and Fermentation T: Enzymes and ATP, R: Redox Reactions & Cellular Respiration Tylenol & Inhibitors of Oxidative Phosphorylation Case Studies due in class F: Last day for withdrawal from course with record (“W”) Sa: Chapters 0 – 8 Exam
Week Twelve (04/01/19) Topic Description	Photosynthesis M: Photosynthesis Quiz T: Cellular Respiration R: Photosynthesis Sa: Photosynthesis Lab Photosynthesis Case Study due in class

Week Thirteen (04/08/19) Topic Description	Cellular Communication T: Cellular Messaging & Receptors W: Cell Communication Quiz due via eCourses R: Signal Transduction Sa: Apoptosis
Week Fourteen (04/15/19) Topic Description	The Cell Cycle M: Cell Cycle Quiz due via eCourses T: Cell Division W: Disrupting Mitosis Case Study due via eCourses R: Cell Cycle and Regulation Sa: The Microscope and Mitosis Lab
Week Fifteen (04/22/19) Topic Description	Review T: Review R: Review Sa: Review
Week Sixteen (04/29/19) Topic Description	Final Exam Week T: Review R: Last Class Day Sa: Final Exam

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.