BIOL 1015 SYLLABUS

BIOL 1015 General Biology
Spring 2020

Instructor: E. Gloria C. Regisford, Ph.D.
Section # and CRN: P01 CRN:26569 and P61 CRN:26588
Office Location: Elmer E. O’Banion Science Building Room 430G
Office Phone: 936-261-3165  FAX: 936-261-3179
Email Address: gcregisford@pvamu.edu

Office Hours: TR: 3:00-4:00 p.m., F: 12:00 – 2:00 p.m., or by appointment
Mode of Instruction: Face-to Face
Course Location: E. E. O’Banion Science – 406 (Lecture) and 315 (Lab)
Class Days & Times: MWF Lecture: 11:00 am – 11:50 am and TR: Lab 1:00 pm – 2:50 pm

Catalog Description: General Biology 1015, (3-4) Credit 5 semester hours. Structure and function of living organisms. Characteristics and Chemistry of Life, Cell Structure, Cell Theory, Energy Transformation, Photosynthesis, Cellular Respiration and Cell Signaling are studied.

Prerequisites: TSIA Reading College Ready
Co-requisites: N/A

Student Learning Outcomes:

<table>
<thead>
<tr>
<th>Upon successful completion of this course, students will be able to:</th>
<th>Program Learning Outcome # Alignment</th>
<th>Core Curriculum Outcome Alignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Demonstrate an understanding of the characteristics and chemical basis of life</td>
<td>1, 3</td>
<td>Discipline Specific Knowledge</td>
</tr>
<tr>
<td>2 Demonstrate by drawings, an understanding of the cell, the basic unit of life</td>
<td>1, 3 and 4</td>
<td>Discipline Specific Knowledge</td>
</tr>
<tr>
<td>3 Demonstrate knowledge of cellular respiration, fermentation and photosynthesis</td>
<td>1, 3 and 4</td>
<td>Integration of Broad Knowledge</td>
</tr>
<tr>
<td>4 Demonstrate knowledge of membrane transport</td>
<td>1, 3 and 4</td>
<td>Discipline Specific Knowledge</td>
</tr>
<tr>
<td>5 Demonstrate knowledge of cell signaling</td>
<td>1, 3</td>
<td>Discipline Specific Knowledge</td>
</tr>
<tr>
<td>6 Demonstrate critical thinking skills and scientific problem solving skills to make informed decisions.</td>
<td>1, 5</td>
<td>Critical Thinking, Problem Solving</td>
</tr>
<tr>
<td>7 Demonstrate laboratory investigations using safe, environmentally appropriate and ethical practices</td>
<td>5</td>
<td>Ethical Decision Making and Problem Solving</td>
</tr>
<tr>
<td>8 Compose an oral scientific presentation using the scientific method</td>
<td>5</td>
<td>Communication, Globalization and Cultural Diversity</td>
</tr>
</tbody>
</table>
Major Course Requirements

Method of Determining Final Course Grade

<table>
<thead>
<tr>
<th>Course Grade Requirement</th>
<th>Value</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Major Exams (3)</td>
<td>45%</td>
<td>450</td>
</tr>
<tr>
<td>2) Final Exam</td>
<td>20%</td>
<td>200</td>
</tr>
<tr>
<td>3) Quizzes and Assignments</td>
<td>10%</td>
<td>100</td>
</tr>
<tr>
<td>4) Laboratory Reports</td>
<td>20%</td>
<td>200</td>
</tr>
<tr>
<td>5) Group PowerPoint presentation (Diseases at the Level of Organelles)</td>
<td>5%</td>
<td>50</td>
</tr>
<tr>
<td>Total:</td>
<td>100%</td>
<td>1000pts</td>
</tr>
</tbody>
</table>

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

Detailed Description of Major Assignments:

<table>
<thead>
<tr>
<th>Assignment Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapters 1, 2, 3,</td>
<td>Exam 1</td>
</tr>
<tr>
<td>Chapters 4 and 5</td>
<td>Exam 2</td>
</tr>
<tr>
<td>Chapters 6 and 7</td>
<td>Exam 3</td>
</tr>
<tr>
<td>Chapters 8, 9, 10 and 11</td>
<td>Exam 4 (Final)</td>
</tr>
</tbody>
</table>

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 (01/13/20)
**Topic Description**
- Organization of Course and Themes of Biology
- Evolution
- Themes of Biology
- Scientific Inquiry
- Lab Safety Rules and Regulations

### Week Two (01/20/20)
**Topic Description**
- Chemical Context of Life
- Introduction to Chemistry
- Chemical Bonding
- Lab Exercise: Chemistry

### Week Three (01/27/20)
**Topic Description**
- Chemical Context of Life
- Chemical Bonding
- Lab Exercise: Chemistry

### Week Four (02/03/20)
**Topic Description**
- Water and Life
- Properties of Water
- Acids and Bases; pH
- Lecture Exam 1 (Chapters 1, 2 & 3)
- Lab Exercise: Properties of Water; pH

### Week Five (02/10/20)
**Topic Description**
- Carbon and Large Biological Molecules
- Carbon
- Carbohydrates and Lipids
- Lab Exercise: Biochemistry

### Week Six (02/17/20)
**Topic Description**
- Large Biological Molecules
- Proteins and Nucleic Acids
- Lab Exercise: Biochemistry

### Week Seven (02/24/20)
**Topic Description**
- A Tour of the Cell
- Cellular Structure and Function
- Lecture Exam 2 (Chapters 4 & 5)
- Lab Exercise: Light Microscopy

### Week Eight (03/02/20)
**Topic Description**
- A Tour of the Cell (Midterm Week)
- Cellular Structure and Function
- Lab Exercise: Cell Structure
**Week Nine** (03/09/20)
Topic Description

*Spring Break*

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**Week Ten** (03/16/20)
Topic Description
Membrane Structure and Function
Cellular Membrane Structure
Passive and Active Transport
Bulk Transport
Lab Exercise: Diffusion and Osmosis

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**Week Eleven** (03/23/20)
Topic Description
Introduction to Metabolism
Matter, Energy, and Thermodynamics
Enzymes and ATP
Lecture Exam 3 (Chapters 6 & 7)
Lab Exercise: Enzymes

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**Week Twelve** (03/30/20)
Topic Description
Cellular Respiration and Fermentation
Glycolysis and the Citric Acid Cycle
Oxidative Phosphorylation and Chemiosmosis
Fermentation
Lab Exercise: Fermentation

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**Week Thirteen** (04/06/20)
Topic Description
Photosynthesis
Process of Photosynthesis
Lab Exercise: Photosynthetic Pigments and Photosynthesis

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**Week Fourteen** (04/13/20)
Topic Description
Cell Communication
Cell Signaling
Apoptosis
Lab Exercise: Cell Communication

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**Week Fifteen** (04/20/20)
Topic Description
Review
Group PowerPoint Presentation of “Organelles and Disease”

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**Week Sixteen** (04/27/20)
Topic Description
Course Review Days and Final Exam Week
Lecture Exam 4 (Chapters 8, 9, 10 & 11)
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 12

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.

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.

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.pyamu.edu/](https://mypassword.pyamu.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.
<table>
<thead>
<tr>
<th>Date Range</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nov 11 - Nov 15, 2019</td>
<td>Priority Registration for Continuing Students for Spring Semester</td>
</tr>
<tr>
<td>Nov 15, 2019</td>
<td>Deadline to Submit Financial Aid Verification Documents</td>
</tr>
<tr>
<td>Nov 16, 2019 - Jan 11, 2020</td>
<td>Pre-Registration for all other students for the Spring Semester Begins</td>
</tr>
<tr>
<td>Jan 13</td>
<td>First Class Day</td>
</tr>
<tr>
<td>Jan 13 - Jan 15</td>
<td>Late Registration</td>
</tr>
<tr>
<td>Jan 13 - Jan 22</td>
<td>Attendance Reporting Period. Students who do not attend class during this period will have their courses removed and financial aid reduced or cancelled</td>
</tr>
<tr>
<td>Jan 13</td>
<td>Financial Aid Satisfactory Academic Progress (SAP) Appeal Deadline</td>
</tr>
<tr>
<td>Jan 13</td>
<td>Late Registration Fee Begins ($50.00)</td>
</tr>
<tr>
<td>Jan 13</td>
<td>Tuition &amp; Fees Payment Due Date</td>
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<tr>
<td>Jan 20</td>
<td>Dr. Martin Luther King, Jr. Day Holiday (University Closed)</td>
</tr>
<tr>
<td>Date</td>
<td>Event Description</td>
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<tr>
<td>Jan 27</td>
<td>Financial Aid Refunds Begin</td>
</tr>
<tr>
<td>Jan 29</td>
<td>12th Class Day (Census Date)</td>
</tr>
<tr>
<td>Jan 29</td>
<td>Final Day to Drop/Withdraw from Course(s) without Academic Record (A Financial Record will still exist)</td>
</tr>
<tr>
<td>Jan 30</td>
<td>Withdrawal from Courses with Academic Record (“W”) Begins</td>
</tr>
<tr>
<td>Feb 04</td>
<td>20th Class Day</td>
</tr>
<tr>
<td>Feb 04</td>
<td>Drop for Non-Payment of Tuition and Fees @ 5:00 p.m.</td>
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<tr>
<td>Mar 05</td>
<td>Mid-Semester Examination Period</td>
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<tr>
<td>Mar 09 - Mar 14</td>
<td>Spring Break (Student Break)</td>
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<tr>
<td>Mar 12 - Mar 13</td>
<td>Spring Break (University Closed)</td>
</tr>
<tr>
<td>Mar 17</td>
<td>Mid-Semester Grades Due</td>
</tr>
<tr>
<td>Mar 25</td>
<td>Final Date to Apply for Spring 2020 Graduation (ceremony participation)</td>
</tr>
<tr>
<td>Date</td>
<td>Event</td>
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<tr>
<td>Mar 25</td>
<td>Founders Day/Honors Convocation</td>
</tr>
<tr>
<td>Mar 27</td>
<td>Application for Graduation-Degree Conferral only for Spring 2020 Graduation Begins (no ceremony participation or name listed in the program)</td>
</tr>
<tr>
<td>Mar 27</td>
<td>Final Day to Withdraw from Course(s) with Academic Record (“W”)</td>
</tr>
<tr>
<td>Apr 10</td>
<td>Good Friday (No Classes)</td>
</tr>
<tr>
<td>Apr 20</td>
<td>Pre-registration for all students Begins for the Summer and Fall Semesters</td>
</tr>
<tr>
<td>Apr 27 - Apr 28</td>
<td>Course Review Days (Classes must convene and instructors will prepare students for final exams)</td>
</tr>
<tr>
<td>Apr 28</td>
<td>Final Day to Apply for Degree Conferral only for Spring 2020 Graduation (no ceremony participation or name listed in the program)</td>
</tr>
<tr>
<td>Apr 28</td>
<td>Final Day to Submit Application for Tuition Rebate for Spring Graduation 2020 (Undergraduate Candidates)</td>
</tr>
<tr>
<td>Apr 28</td>
<td>Final Day to Withdraw from the University (from all courses) for the Spring 2020 16-week session</td>
</tr>
<tr>
<td>Apr 28</td>
<td>Last Class Day</td>
</tr>
<tr>
<td>Date</td>
<td>Event</td>
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<td>------------</td>
<td>--------------------------------------------</td>
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<tr>
<td>Apr 29 - May 06</td>
<td>Final Exams</td>
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<td>Wednesday through Wednesday</td>
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<tr>
<td>May 07</td>
<td>Final Grades Due for Graduation Candidates (12:00 pm)</td>
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<tr>
<td>Thursday</td>
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<tr>
<td>May 09</td>
<td>Commencement</td>
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<tr>
<td>Saturday</td>
<td></td>
</tr>
<tr>
<td>May 12</td>
<td>Final Grades due for all other students (11:59 pm)</td>
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<tr>
<td>Tuesday</td>
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