**Syllabus – FALL 2021**

*Biology 101 sec 06 : Concepts/Apps in Biology 1 (CRN 10062)*

MWF 12:00 AM – 12:50 AM Rita Liddy Hollings Science Center 101

**INSTRUCTOR**
Dr. Farahdiba Jafri PhD
jafrif@cofc.edu

**OFFICE LOCATIONS:** SSMB Room no. 326

**OFFICE HOURS:** MWF 10:30 AM - 11:30 AM. You may also email me to schedule an appt. at another time.

**Course Description**
To provide non-science majors with a general overview of living systems, with emphasis on cellular and molecular concepts, including biochemistry, cell structure and function, respiration, photosynthesis, genetics and molecular biology. The goal of the course is to provide a foundation for students to appreciate, understand and critically evaluate biological issues facing society.

**Co-requisites**
BIOL 101 Laboratory – you MUST enroll in a lab section in addition to this lecture.

**Required Course Materials**
1. **Textbook:** *Biology: Concepts and Applications*, by Starr, Evers & Starr, Tenth Edition, (Cengage Publishers). You can buy it, rent it, get the ebook, borrow it, or share it with a classmate, but you MUST have access to this textbook! You will also need it for Biology 102. **Keep up with the reading!**

**Suggested Course Material**
**Center for Student Learning** – I encourage you to utilize the Center for Student Learning (CSL) and their academic support services for assistance with study strategies and course content. They offer tutoring, Study Skills appointments, and workshops that help students of all abilities become more successful throughout their academic career. Services are available to you at no additional cost. For more information, please visit the CSL website at [http://csl.cofc.edu](http://csl.cofc.edu), or call (843) 953-5635, or drop by their location on the first floor of the Addlestone Library.

**Teaching Philosophy**
I encourage participation and interaction in my lectures and will do my best to create a fantastic learning environment. However, it is not all up to me. I depend on you, the student, to also take an active role in your education (after all, you pay to be here!) by challenging me with questions and participating.
How to Take This Course  
(with credit & thanks to, and in memory of, Dr. Conseula Francis)

Any course, in any given semester, is a journey, often to a place you haven’t been before. You may be super excited about the trip, eager to get going and explore the sites. Or maybe you are here because you were told to take this course. Or maybe you are somewhere in-between. Imagine, if you will, that we’re all standing at the base of a mountain. We all have to decide how we’re going to climb it, and you alone can decide the manner of your exploration.

<table>
<thead>
<tr>
<th><strong>Day Hiker</strong></th>
<th><strong>Backpacker</strong></th>
<th><strong>Trailblazer</strong></th>
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<tbody>
<tr>
<td>You’re sticking to the trail because you’re certain of where it goes. You want the basics - lists, order of processes, details to memorize. There is nothing wrong with this approach, especially if the material is new to you. A successful day hiker will take notes during class, read all related pages in the book after class, and review their notes at least twice a week. A day hiker may do well on quizzes, but they will have to dig a little deeper for exams to really understand the connections between all aspects of the material.</td>
<td>You’re ready to spend a few days on this mountain and you have supplies (already existing knowledge, interest, inclination) to help you. You have a grasp of the basics, and are ready to explore beyond them. Backpackers will hone their note-taking skills in class, read all related pages in the book both before and after class so they can ask questions about anything that is not clear, and really spend time digesting all of the information that is contained in the figures in the textbook. They might even drop in to the professor’s office hours from time to time, or send an email, with a question.</td>
<td>You are blazing your own way, finding new routes up the mountain and new connections between all aspects of the material, things others may not see. You are passionate about, and interested in, not only the <em>what</em> and the <em>why</em>, but also the <em>how does this connect to other things in the bigger picture?</em> Trailblazers often use different colors when taking notes, and read more in the book than is required, because they really want to understand the whole picture. They study the figures and try to draw them on their own for mastery. They ask questions and spend a lot of time with the material. For trailblazers, this course is part of the expedition to discover all that science has to offer.</td>
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</table>

No matter which path you choose, remember that all explorers need to do their best to **limit outside distractions**. Yes, life happens, and can divert us from the path, but by putting all of our devices away and really focusing while we are in class, we are giving our brains the gifts of time and focus.

**Course Policies and Requirements**

**Accommodations**

Any student in this class who has a documented disability should speak to me as soon as possible, as well as contact the Center for Disability Services (CDS/SNAP program), located on the first floor of the Lightsey Center, Suite 104, (843) 953-1431, SNAP@cofc.edu

**Class Attendance**

You are expected to attend all meetings of the class. There will be attendance in the class so that I have record of students attending the class. Students are responsible for getting their own notes from a
classmate for any class missed. Exams will be based almost entirely on lectures with the text used for background information and reinforcement. **You will not do well in this course if you miss lectures. This material is challenging and requires work on your part for success!**

**Assignment**

One homework assignment will be assigned during the semester. This assignment is intended to reinforce material covered in class and to encourage critical thinking. It will require you to seek information from sources outside of class and in addition to your textbook. Due date is listed below in the course calendar. **Because of the assignment and other REAL credit opportunities in this course, I do not offer any extra credit projects.** All students are expected to turn in their assignment (which is to be done independently, unless otherwise stated) by the beginning of the class period on the date scheduled, and it will only be accepted **typed and stapled** (otherwise points will be lost). An assignment will lose one full letter grade for every day of delay.

**Honor Code**

Students are required to adhere to the guidelines outlined by the [Honor Board in the Student Handbook](http://victimservices.cofc.edu/absence-memo/index.php). **This includes lying, which will not be tolerated in this course.** All work that you turn in for this course (whether for assignments, quizzes, or exams) must be your own and have not been used, partially or totally, to fulfill requirements for other classes. Any form of plagiarism (intentional and unintentional), cheating, or presenting someone else's work as one's own will be treated as a serious academic transgression and will be communicated accordingly by the instructor as an honor code violation to the Division of Student Affairs. Be especially cautious of plagiarism when using Internet sources. **Cheating, attempted cheating, or plagiarism will result in a grade of zero on that assignment, quiz or exam and may result in a final overall grade of F or XXF (failure due to academic dishonesty) for the course.**

**Quizzes**

Several short quizzes will be given throughout the semester. They are intended to assist students in keeping up with the large amount of information in this course. **It is the student’s responsibility to keep up with due dates and times! Your lowest quiz score will be dropped in the final grade calculation.** A missed quiz will result in a 0 for that quiz, unless the student provides a valid and documented absence memo (through the Absence Memo Office – see below). Acceptable excuses include serious illness, personal tragedy or extreme circumstances beyond the student’s control. **If you have a quiz excused, all of your remaining quiz scores will count toward your final grade (none will be dropped). No more than 2 quizzes may be excused.** All cell phones, pagers, iPods, iPads, tablets, laptops, etc. are to be turned off and put away during each quiz, and you are **expected to take them by yourself, without other people, notes or books.**

**Exams**

In this course, there are 5 regular exams scheduled during the semester (see calendar below for dates) lowest exam grade will be dropped and 1 cumulative final exam scheduled during the final examination period. Anyone who misses an exam will receive a 0, unless the student provides a valid and documented absence memo (through the Absence Memo Office, 67 George St., (843) 953-3390), [victimservices.cofc.edu/absence-memo/index.php](http://victimservices.cofc.edu/absence-memo/index.php), [absencememo@cofc.edu](mailto:absencememo@cofc.edu) for missing a scheduled exam. Acceptable excuses include serious illness, personal tragedy or extreme circumstances beyond the student’s control. **If you have any conflicts with the scheduled exams, you must see me ahead of time, well before the exam date.** After receiving one excused exam, a student will be in danger of receiving a grade of Incomplete for the course if any more exams are missed. **All cell phones, pagers, iPods, iPads, tablets, laptops, etc. are to be turned off and put away during each exam.**
Grading
The quizzes will count for a total of 15% of the lecture portion of your final grade. The assignment will count for 10% of the lecture portion of your final grade. The 4 regular exams will count for a total of 55% of the lecture portion of your final grade. The cumulative final exam will count for 20% of the lecture portion of your final grade. Grade calculation formula (try for yourself in an Excel spreadsheet):

\[(\text{Quiz avg.})*0.15]+[(\text{Assign. grade})*0.10]+[(\text{Exam avg.})*0.55]+[(\text{Final exam score})*0.20] = \text{Lecture portion of your final grade (75\%)}.\] The grade that you earn in your Bio. 101 lab will count for the remaining 25\% of your final grade for Bio. 101.

*Students who have a SOLID “A” average (93 or higher) at the end of the semester FOR THE LECTURE PORTION OF THE COURSE can opt to be exempt from the final exam, BUT you must talk to me to confirm; no show = 0.*

Letter grades will be determined by the following breakdown:

\[
\begin{align*}
93\% - 100\% & = A \\
90\% - 92\% & = A- \\
87\% - 89\% & = B+ \\
83\% - 86\% & = B \\
80\% - 82\% & = B- \\
77\% - 79\% & = C+ \\
73\% - 76\% & = C \\
70\% - 72\% & = C- \\
67\% - 69\% & = D+ \\
63\% - 66\% & = D \\
60\% - 62\% & = D- \\
\leq 59\% & = F \\
0\% \text{ due to acad. dishonesty} & = XXF
\end{align*}
\]

Please teach yourself how to check on your grade in this course on OAKS, and follow along during the semester. Any errors can be brought to my attention, and are much easier to fix the sooner they are detected!

My Expectations of Students in my class:
1. **TURN OFF** all cell phones, pagers, iPods, iPads, tablets, laptops and anything with alarms before coming into my class AND PUT THEM AWAY. If you forget to do so you may be asked to leave and not to return that class period. If you have a legitimate need to use a laptop, please see me to discuss. The only exception to this is that I will allow you to use your phone to make audio recordings of my lectures. In that case, you may have it face down on the desk only.

2. **DO NOT TALK OR TEXT** (your phone should be off and put away anyway) WHEN I AM LECTURING. I am trying to do my job and others are trying to learn – please be courteous and pay attention! If you have a question, please ask me – I love questions from students!

3. This is a large class, and it will take me some time to learn your names. However, I have an excellent memory and I can see everyone, even in such a large lecture hall, so please stay awake, participate and be attentive. Start behaving now like the student you will want me to write that stellar recommendation letter about!
# COURSE CALENDAR
*(lecture schedule is tentative – I will notify class of any changes – but exam dates are firm!)*

<table>
<thead>
<tr>
<th>Date</th>
<th>LECTURE TOPIC</th>
<th>Chapter</th>
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</thead>
<tbody>
<tr>
<td><strong>August</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>W 25</td>
<td>Welcome, Introduction</td>
<td></td>
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<tr>
<td>F 27</td>
<td>Cell, Cell Theory</td>
<td>4.1, 4.2</td>
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<tr>
<td><strong>Quiz 1</strong></td>
<td></td>
<td></td>
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<tr>
<td>M 30</td>
<td>Eukaryotic cells</td>
<td>4.5</td>
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<tr>
<td><strong>September</strong></td>
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<tr>
<td>W 1</td>
<td>Parts of Eukaryotic cells</td>
<td>4.6, 4.7, 4.8</td>
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<tr>
<td>F 3</td>
<td>More parts of Eukaryotic cells</td>
<td>4.9</td>
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<tr>
<td>M 6</td>
<td>Cell membrane, outside of cell membrane</td>
<td>4.3</td>
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<tr>
<td><strong>Quiz 2</strong></td>
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<tr>
<td>W 8</td>
<td>EXAM 1</td>
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<tr>
<td>F 10</td>
<td>Cellular Connections</td>
<td>4.10</td>
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<tr>
<td>M 13</td>
<td>Life’s Chemical Basis, Atoms bonding (only covalent bonds)</td>
<td>2.1, 2.2, 2.3</td>
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<tr>
<td>W 15</td>
<td>Hydrogen bonding and Water</td>
<td>2.4</td>
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<tr>
<td><strong>Quiz 3</strong></td>
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<tr>
<td>F 17</td>
<td>Ions, Acids and Bases</td>
<td>2.5</td>
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<tr>
<td>M 20</td>
<td>Molecules of life (Origin of organic molecules)</td>
<td>3.1, 18.1</td>
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<tr>
<td>W 22</td>
<td>Organic molecules, functional groups, Carbohydrates</td>
<td>3.1, 3.2</td>
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<tr>
<td><strong>Quiz 4</strong></td>
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<tr>
<td>F 24</td>
<td>Lipids</td>
<td>3.3</td>
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<tr>
<td>M 27</td>
<td><strong>EXAM 2</strong></td>
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<tr>
<td>W 29</td>
<td>Proteins</td>
<td>3.4</td>
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<tr>
<td><strong>October</strong></td>
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<tr>
<td>F 1</td>
<td>Sickle cell disease, Nucleic acids and Chromosomes</td>
<td>Pg 156-157, 3.5, 3.6</td>
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<tr>
<td>Date</td>
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<tr>
<td>W 6</td>
<td>Eukaryotic cell cycle, Eukaryotic cell division (Mitosis)</td>
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<tr>
<td>F 8</td>
<td>Mitosis in class activity and worksheets</td>
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<td>Quiz 6</td>
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<tr>
<td>M 11</td>
<td>Energy, Enzymes</td>
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<tr>
<td>W 13</td>
<td><strong>EXAM 3</strong></td>
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<tr>
<td>F 15</td>
<td>Coenzymes and Cofactors/Metabolic pathway</td>
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<td>M 18</td>
<td>FALL BREAK!!! NO CLASS!!!!!!!</td>
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<td>Quiz 7</td>
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<td>W 20</td>
<td>Photosynthesis (Light dependent Reaction)</td>
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<tr>
<td>F 22</td>
<td>Photosynthesis (Light Independent Reaction)</td>
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<td>M 25</td>
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<tr>
<td>Quiz 8</td>
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<tr>
<td>W 27</td>
<td>Respiration (Aerobic Respiration) - Glycolysis</td>
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<tr>
<td>F 29</td>
<td>Krebs Cycle</td>
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<td>November</td>
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<tr>
<td>M 1</td>
<td>Exam 4 &amp; Assignment due</td>
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<tr>
<td>W 3</td>
<td>Fermentation</td>
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<tr>
<td>Quiz 9</td>
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<tr>
<td>F 5</td>
<td>Chromosome terminology and background for meiosis</td>
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<tr>
<td>M 8</td>
<td>Meiosis; Overview and details</td>
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<tr>
<td>W 10</td>
<td>Meiosis in class practice and worksheet</td>
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<tr>
<td>Quiz 10</td>
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<tr>
<td>F 12</td>
<td>Genetics Inheritance and Punnett square</td>
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<tr>
<td>M 15</td>
<td>Punnett square practice and other pattern of dominance</td>
<td>13.4</td>
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<tr>
<td>W 17</td>
<td>Double character crosses, special dihybrid crosses</td>
<td>13.3, 13.4</td>
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<tr>
<td>F 19</td>
<td>Epistasis, Epigenetics, Continuous Variation</td>
<td>13.5, 13.6</td>
</tr>
<tr>
<td>M 29</td>
<td>Revision for Exam 5 &amp; Final Cumulative Exam</td>
<td></td>
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<tr>
<td>December</td>
<td>EXAM 5</td>
<td></td>
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<tr>
<td>W 1</td>
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<tr>
<td>F 3 &amp; M 6</td>
<td>Revision for Final Cumulative Exam</td>
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<tr>
<td>T 7</td>
<td>Reading day starts (No classes)</td>
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<tr>
<td>F 10 Dec 1:00pm-3:00pm</td>
<td>FINAL CUMULATIVE EXAM!</td>
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** Please note: as stated in the Undergraduate Catalog (all online: catalog.cofc.edu/content.php?catoid=3&navoid=130&hl=%22exams%22&returnto=search#final-examinations):

Examinations must be taken at the time scheduled, except when:
1. Two or more exams are scheduled simultaneously.
2. Legitimate AND documentable extenuating circumstances prevent the student from completing the examination at the scheduled time (e.g., burial services for an immediate family member) Note: Forms for requesting permission to reschedule one exam may be found on the Student Academic Forms channel on the Academic Services tab on MyCharleston. Written permission of the instructor and all relevant signatures must be obtained at least 24 hours prior to the scheduled time for the final examination.

Make it a habit to always check out your final exam schedules: registrar.cofc.edu/pdf/exam-schedule-fall2019.pdf

CONCEPTS AND APPLICATIONS IN BIOLOGY I & II
BIOL 101 & 101L/BIOL 102 & 102L
Department: Biology

**Learning Goals & Objectives**

This general education science course provides a background for understanding and evaluating contemporary topics in biology and societal/environmental issues. Students
develop a general understanding of core concepts and develop the critical competencies that form the bases for the practice of science and use of scientific knowledge.

Core Concepts

This 2-semester course sequence in general biology addresses fundamental principles in biology which broadly include:

- **Evolution**: The diversity of life evolved over time by processes of mutation, selection, and genetic change. The theory of evolution by natural selection allows scientists to understand patterns, processes, and relationships that characterize the diversity of life.

- **Structure and Function**: Basic units of structure define the function of all living things. Structural complexity, together with the information it provides, is built upon combinations of subunits that drive increasingly diverse and dynamic physiological responses in living organisms. Fundamental structural units and molecular and cellular processes are conserved through evolution and yield the extraordinary diversity of biological systems seen today.

- **Information flow, exchange and storage**: The growth and behavior of organisms are activated through the expression of genetic information at different levels of biological organization and depend on specific interactions and information transfer.

- **Pathways and transformation of energy and matter**: Biological systems grow and change by processes based upon chemical transformation pathways and are governed by the laws of thermodynamic and will be explored to understand how living systems operate, how they maintain orderly structure and function, and how physical and chemical processes underlie processes at the cellular level (i.e. metabolic pathways, membrane dynamics), organismal level (i.e. homeostasis) and ecosystem level (i.e. nutrient cycling).

- **Biological systems**: Living systems are interconnected and interacting and biological phenomena are the result of emergent properties at all levels of organization, from molecules to ecosystems to social systems. The course will explore the dynamic interactions of components at one level of biological organization to the functional properties that emerge at higher organizational levels.

These ideas are explored from the perspective of the following topics in each course:

**BIOL 101 & 101L**
- Chemical and Physical Properties of Life
- Evolution as a unifying principle in biology
- Cell Form & Function
- Energetics and Metabolism
- The Cell Cycle
  - Meiosis and Sexual Reproduction
  - Mitosis and Cell Reproduction
- Mendelian Genetics
- Patterns of Inherited Traits
- Human Inheritance
- The Molecular Basis of Inheritance
- DNA and protein production
- Regulation of gene expression
Core Competencies

- Nature of Scientific Knowledge
  - Understand the intellectual standards used by scientists to establish the validity of knowledge, evidence, and decisions about hypothesis & theory acceptance? These standards include: 1) science relies on external and naturalistic observations, and not internal convictions. 2) scientific knowledge is based on the outcome of the testing of hypotheses and theories that are under constant scrutiny and subject to revision based on new observations 3) the validity of scientifically generated knowledge is established by the community of scientists through peer review and open publication of work.

Understand that new ideas in science are limited by the context in which they are conceived; are often rejected by the scientific establishment; sometimes spring from unexpected findings; and usually grow slowly, through contribution

- Understand that science operates in the real world as defined by the laws of chemistry and physics.

- Understand the differences between and relations among a scientific theory, hypothesis, fact, law, & opinion.

- Understand the differences between science and technology but also their interrelations.

- Understand the dynamic (tentative) nature of science.

- Scientific Methods of Discovery
  - Understand the methods scientists use to understand the natural world (observing; questioning; formulating testable deductive hypotheses; controlled experimentation when possible; observing a wide range of natural occurrences and discerning (inducing) patterns.)

  - Apply physical/natural principles to analyze and solve problems.

- Developing a Scientific Attitude
Develop habits of mind that foster interdisciplinary and integrative thinking (within biology; between biology and other sciences; between science and other disciplines)

- Develop an appreciation for the scientific attitude - a basic curiosity about nature and how it works.

Developing scientific analysis and communication skills
- Develop quantitative reasoning skills (quantitatively expressing the results of scientific investigations, or patterns in nature and using knowledge of biological concepts to explain quantitatively-expressed data or patterns).

- Understand the probabilistic nature of science and the use/application of inferential statistics to test hypotheses.

- Develop scientific information literacy (library, internet, databases etc...); finding and evaluating the validity of science-related information.

- Communicate scientific knowledge, arguments, ideas in a variety of different contexts (scientific, social, cultural) and utilizing a variety of different media (scientific articles, policy statements, editorials, oral presentations etc...).

- Develop cooperative problem-solving skills (working effectively in teams), but also habits of mind and skills that foster autonomous learning.

- Develop an appreciation for the impact of science on society.

- Develop an appreciation of humans as a part of the biosphere and the impact of biological science on contemporary societal/environmental concerns.

- Knowledge of the history of the biological sciences and the influences of politics, culture, religion, race, and gender on the scientific endeavor.

Signature assignments for measuring learning outcomes

Learning Outcome 1: Students apply physical/natural principles to analyze and solve problems. This learning outcome is assessed using the poster (or scientific article) generated in Biology 102 lab as part of the multi-week student-directed independent research project. In this project students use ecological data they collect (or which has been collected in actual research investigations) to test an ecological hypothesis of their choosing. This multi-week project begins with students becoming experts in various areas of ecological sampling. Students, working in small research teams, decide on a question they would like to explore. Teams then develop a research proposal to test their hypothesis. Students collect (or use already collected data), summarize and analyze the data, and draw conclusions.

Learning Outcome #2 - Students demonstrate an understanding of the impact that science has on society.

BIOL 102 lab students produce a written document (examples - policy statement, article, stakeholder professional letter or poster) which requires them to research and apply biological knowledge or evidence to defend or critique a proposed solution to a biology-related societal
issue. Although the choice of the specific issue or proposed solution is course-section specific, some examples of potential issues include

- exploring environmental/health impacts of genetically modified organisms
- the epidemic of diabetes in the United States
- solutions for mitigating global climate change


[1] This learning goal is measured as part of the general education assessment. The specific learning outcome to be measured is: Students apply physical/natural principles to analyze and solve problems.

[2] This learning goal is measured as part of the general education assessment. The specific learning outcome to be measured is: Students demonstrate an understanding of the impact that science has on society.
Guidance on enforcing face covering requirement in BIOL101-06 FALL 2021

As you know, the College is requiring students to wear face coverings while around others inside all campus facilities, including classrooms and laboratories. This requirement applies to everyone on campus, regardless of vaccination status.

Given the overwhelming scientific evidence that face coverings significantly reduce the transmission of COVID-19, the College intends to strictly enforce this requirement.

If a student refuses to comply with the face covering requirement in my class or office, I will ask that student to leave the room and not return until he/she/they are willing to follow our campus-wide policy. If this does happen I will report it to the Dean of Students Office for appropriate follow-up in accordance with the Student Code of Conduct.

Preventions to keep ourselves safe in class from COVID-19 are as follows:

1- **Wear a mask** : In areas with high numbers of COVID-19 cases, consider wearing a mask in crowded outdoor settings and for activities with close contact with others. People who have a condition or are taking medications that weaken their immune system may not be fully protected even if they are fully vaccinated. They should continue to take all precautions recommended for unvaccinated people, including wearing a well-fitted mask. If you are fully vaccinated, to maximize protection from the Delta variant and prevent possibly spreading it to others, wear a mask. **Wearing a mask over your nose and mouth is required.**

2- **Stay 6 feet away from others**
   - Stay at least 6 feet (about 2 arm lengths) from other people.
   - Keeping distance from others is especially important for people who are at higher risk of getting very sick.

3- **Avoid crowds and poorly ventilated spaces**

4- **Wash your hands often**
   - Before touching your face
   - After using the restroom
- After leaving a public place
- After blowing your nose, coughing, or sneezing
- After handling your mask
- After caring for someone sick

- **Use a hand sanitizer that contains at least 60% alcohol.** Cover all surfaces of your hands and rub them together until they feel dry.

- **If you are wearing a mask:** You can cough or sneeze into your mask. Put on a new, clean mask as soon as possible and wash your hands

- **If you are not wearing a mask:**
  - Always cover your mouth and nose with a tissue when you cough or sneeze, or use the inside of your elbow and do not spit.
  - Throw used tissues in the trash.
- Immediately **wash your hands** with soap and water for at least 20 seconds. If soap and water are not readily available, clean your hands with a hand sanitizer that contains at least 60% alcohol.

Clean and disinfect

- **Be alert for symptoms.** Watch for fever, cough, shortness of breath, or **other symptoms** of COVID-19.

- **Take your temperature** if symptoms develop.
  - Don’t take your temperature within 30 minutes of exercising or after taking medications that could lower your temperature, like acetaminophen.

**PS :-PLEASE DON’T BRING FOOD OR DRINK TO CLASS**