Biology I  
Biology 1406  
Department of Life Sciences  
Fall 2020

A. COURSE INFORMATION

Class meeting time: ONLINE  
Class location: Lecture: ONLINE; Lab: ONLINE
Course Website: (Island Online/Blackboard Portal): https://bb9.tamucc.edu/

B. INSTRUCTOR INFORMATION

Instructor: Mr. Lee Lehman  
Office location: WebEx-- https://tamucc.webex.com/meet/leehman  
Office hours: TWR 10pm-12pm  
Telephone:  
e-mail: lee.lehman@tamucc.edu

Appointments: I will still have office hours available but will NOT be accepting students into my office for the duration of the semester under any circumstances. Please email (Lee.Lehman@tamucc.edu) and I will arrange a telephone call, or a WebEx meeting for a time that works for both of us.

C. COURSE DESCRIPTION

Catalog Course Description  
This course is an overview of the major concepts in biological diversity and plant and animal biology. Laboratory work will include individual/team activities as well as technology-related assignments. This course counts toward the natural science component of the University Core Curriculum.

Extended Course Description  
Even if you never have a position in a biology-related field, this course and your experience at TAMUCC will be beneficial to you. This course covers many topics that have a biological basis that are important issues in our society and gives you the skills to follow the debate about these issues and make an informed choice on these issues. This course provides you with the basic skills required to do well in other biology courses that you will take as part of your degree plan.

D. PREREQUISITES AND COREQUISITES

Prerequisites: Biology I (BIOL 1406).  
Corequisites: none.
E. REQUIRED TEXTBOOK(S), READINGS AND SUPPLIES

Required Textbook(s): Required Materials:

OR

2. Biology (LoosePgs)(w/Connect Access)(CUSTOM)(TAMU); Edition: 12th; ISBN: 9781260932720; Author Raven; Publisher: MCGRAW HILL CREATE (CUSTOM PUBLISHING)

AND for lab


Supplies and Other Requirements:
- Access to BlackBoard and Connect will be required.
- See separate Lab Syllabus regarding laboratory.

F. STUDENT LEARNING OUTCOMES AND ASSESSMENT

Course Objectives: -The Texas Higher Education Coordinating Board course objectives for courses such as bio 1406 that fulfill the core curriculum.
-All core courses address critical thinking and communications.
-Each core course addresses an additional two core objectives. Objectives addressed by bio 1406 are teamwork and Empirical and Quantitative reasoning.
-For the critical thinking objective, students will gather and assess information relevant to a question. In lab and lecture students will gather data about a situation, graph those data, interpret these data and explain to others what these data tell us about the situation.
-For the communication skills objective, students will develop, interpret, and express ideas through written communication in lecture, on assignments and on exams.
-For the empirical and quantitative reasoning objective, in lecture and lab students will manipulate and analyze numerical data and arrive at an informed conclusion. This objective will be linked to the communication skills objective because students will report their conclusions on lab reports, classroom assignments and exams.
For the teamwork objective, students will integrate different viewpoints as a member of a team during group work in lecture and in lab. Because science is a group endeavor and interdisciplinary groups are increasing important in many fields within biology, assignments done in your team learning groups make up a large percentage of your grade in the course.

**Student Learning Outcomes:**

Students who complete this course will:

1. Experience for themselves the process of scientific inquiry and experimentation.
   - Construct hypotheses, identify relevant variables, and design experiments to test hypotheses.
   - Generate and analyze data using computer-assisted technologies.
   - Gain skills interpreting graphs and tables and using mathematics and statistics to evaluate data.
   - As a result, students will be able to distinguish between science and pseudoscience.

2. Appreciate the importance of ethics in science.
   - Understand the vital importance of an ethical approach to scientific inquiry.
   - Explore ethical issues that new technologies raise when applied to human society and to our biosphere.

3. Develop a working understanding of major biological concepts.
   - Evolution is the major unifying theme in biology.
   - Bioethics involved in biological decision making.

4. Learn to work as a part of a collaborative team in problem solving and will engage with other students in the learning process.
   - Practice scientific terminology.
   - Apply biological principles and the process of scientific inquiry to real-world problems.
   - Demonstrate their abilities to explain processes and relationships in a logical and precise manner.

5. Improve problem-solving skills and build abilities to critically evaluate scientific information.
   - Analyze claims of others as presented in the popular press, movies, and television.
   - Recognize that scientific understandings and the scientific process of inquiry are relevant to everyday life decisions.

Communication skills are improved through the development of both oral and written skills. Students will be introduced to appropriate scientific communication skills through technical writing and scientific presentation exercises. Students will have the opportunity to convey concepts by learning to represent information in illustrations, charts, and graphs and also through oral presentations.
G. INSTRUCTIONAL METHODS AND ACTIVITIES

Instructional methods may include ONLINE PowerPoint lectures, videos, group activities, quizzes, supplemental questions, homework, and tests.

H. MAJOR COURSE REQUIREMENTS AND GRADING

Your lecture average is worth 75% of the overall BIOL 1406 course grade; your average from lab (based on reports, quizzes, practicals, etc. as stated in lab syllabus) will make up the remaining 25% of the grade.

Lecture average will come from the following:

- 4 Regular Exams worth 50%
- Final Exam-Comprehensive that can replace a regular exam grade.
- Connect Assignments worth 25%

TOTAL LECTURE AVERAGE = % of total available points earned.

Letter Grades: Your final letter grade will be based on your average in lecture. Statistical manipulations (e.g., curving) may be performed once—at the end of the semester—not for each examination. The final grading scale will also be determined at the end of the semester, but the cut-off for each grade will be no higher than the following:

\[ A \geq 90\% > B \geq 80\% > C \geq 70\% > D \geq 60\% > F \]

- I will rectify any clerical, mathematical, and/or other errors. However, you have one (1) week to notify me of such errors after an assignment, quiz or examination is returned.
- I will not change a legitimate course grade just because you “need” it (for financial aid, to get into professional school, etc.). The grading section of this syllabus describes how I assign grades. Please be sure you earn enough points to get the grade you want. There will always be someone who just missed a D, or a C, or a B, or an A. Although I reserve the right to curve, doing so is usually not necessary. (Curves are based on statistical analysis of the entire class’s performance, not on the needs of individual students.) I have to draw lines between grades, and no matter where I draw them, someone is on the wrong side. Don’t let that someone be you. You have plenty of help in my class. Take advantage of the resources I offer. The reasons for receiving a grade of “I” (incomplete) are clearly defined in the University Catalog; this “grade” cannot be used simply to prevent a student from receiving an unwanted grade in a class.
- I only discuss grades in person (i.e., I do not discuss grades or matters relating to grades over the telephone or by e-mail).
Examinations: There will be five examinations (100 percentage points each), taking questions for these tests primarily from material covered in the lectures, from handouts and other assignments, and from readings in the textbook. Examinations may consist of essay, short-answer, compare-contrast, fill-in-the-blank, multiple-choice, matching, making and/or labeling drawings, and/or various types of “flex” questions (i.e., anything is fair game). The first four examinations are sequential (i.e., each examination covers material from one specific section of the course). The final examination is comprehensive (i.e., covers material from the entire course), and redemptive (i.e., it can count as nothing; it can replace single examination; or it can be your entire examination grade). Thus, your examination grade can come from a percentage derived from:

1) the final examination alone…
2) the average of the four examinations…
3) the average of the three highest examinations with the final used to replace the lowest examination…

… whichever method gives you the highest percentage.

- If you leave an examination room—for any reason—you must turn in your exam and answer sheet and you will not be allowed to resume the examination. Attend to personal matters (e.g., restroom visits) before the examination.
- Be on time! Anyone arriving after someone has completed an examination and left the room will not be allowed to take that examination.
- Cheating and plagiarism are unacceptable behaviors.

Laboratory: Laboratory activities will contribute 25% of the final course grade. Please see the separate Lab Syllabus for details of these activities.

I. COURSE CONTENT/SCHEDULE

The complete course calendar is posted on Blackboard.

Exam dates: 14 September, 5 October, 26 October, 20 November
Final exam is Wednesday, December 2

http://registrar.tamucc.edu/final_exams/

Note: Changes in this course schedule may be necessary and will be announced to the class by the Instructor. The assignments and exams shown are directly related to the Student Learning Outcomes described in Section F.

The time and point schedule may require adjustment. Additional assignments may or may not be provided at the Instructor’s discretion. Such assignments might include homeworks, group projects, reading assignments, quizzes, etc. Every attempt will be made to follow the time and evaluation schedules shown here. It is the student’s duty to attend each class session, and regularly visit BlackBoard to be aware of all assignments, deadlines, and changes to such.
<table>
<thead>
<tr>
<th>DATE (BY DAY OR WEEK)</th>
<th>TOPIC</th>
<th>CHAPTER &amp; NOTES</th>
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<tr>
<td>Aug. 19-21</td>
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<td>Chapter 1</td>
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<td>Aug. 24-28</td>
<td>Chapter 1; Chapter 2</td>
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<td>Aug. 31-Sept. 4</td>
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<td>Sept. 7-11</td>
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<td>CH 3 &amp; 4</td>
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<td>Sept. 21-25</td>
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<td>Sept. 28-Oct. 2</td>
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<td>CH 6 &amp; 7 &amp; 8</td>
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<td>Oct. 5-9</td>
<td>EXAM 2-October 5 (CH 5-8)</td>
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<td>Oct. 12-16</td>
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<td>Oct. 19-23</td>
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<td>Oct. 26-30</td>
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<td>Nov. 9-13</td>
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<td>Nov. 16-20</td>
<td>EXAM 4-November 20 CH 14-17</td>
<td>EXAM IV</td>
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<td>Nov. 23-27</td>
<td>THANKSGIVING</td>
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<td>Nov. 30-Dec. 4</td>
<td>FINAL EXAM December 2nd</td>
<td>CH 1-8, 10-17</td>
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J. COURSE POLICIES

COVID-19
Face Coverings—Face coverings (cloth face covering, surgical mask, etc.) must be properly worn in all non-private spaces including classrooms, teaching laboratories, common spaces such as lobbies and hallways, public study spaces, libraries, academic resource and support offices, and outdoor spaces where 6 feet of physical distancing is difficult to reliably maintain. Extra masks will be made available if needed.

Attendance/Tardiness
My attendance policy is the same as that stated in the University Catalog. Attendance is the student’s responsibility, and students are expected to attend, be on time for and remain the entire period in every class. Attendance is not used to determine grades. In lecture, even if I take roll, I do not give—per se—a bonus for attendance, nor a penalty for absence (except for missing an examination, bonus points, or an assignment). (Note that I may choose to have
“pop” quizzes, and/or “attendance” quizzes as part of the bonus points.) Coming to lecture on a regular basis should result in a higher grade, and if you come to class often, it will help you do well in this course.

You are responsible for the material covered and assignments made in every lecture regardless of whether you attend it. “I came in late and didn’t hear about the assignment,” is never an acceptable excuse. It is always your responsibility to determine what happened in class during your absence. If you are absent, tardy, or leave early, I will provide you with copies of assignments (including “bonus point” assignments) and handouts if—and only if—you ask for them. (In other words, I will not, “track down” absentees to make sure that they know about assignments.) You must obtain class notes from other students.

Points missed because of an unexcused absence (including tardiness and leaving early) cannot be recovered. An excused absence allows us to make alternative arrangements for completing assignments; an excused absence is not waiver of assignments, knowledge, skills or experiences necessary to complete a course. The documentation required for an absence to be excused must be:

- from an appropriate source (doctor, dentist, funeral director) who states the nature and dates of the event
- in writing, on official letterhead, and signed (it will not be returned)
- presented prior to the absence for a scheduled event (e.g., university-sponsored activity, recognized religious holiday, military service); and
- presented no more than one week after the date of an unexpected absence.

Late Work and Make-up Exams
You may always turn in assignments early. Except for excused absences, late assignments will not be accepted. If you know in advance that you will have an excused absence when an assignment is due, you must turn in that assignment before its due date. You should turn in assignments that were missed because of an unexpected, excused absence as soon as possible.

For some scheduled events (athletics, military duty, etc.), you may arrange to take a lecture examination before (but not after) its scheduled date. (You should take a test as close to its originally scheduled time as possible, but you may not take a test more than one week before its originally scheduled time. You must obtain your instructor’s approval at least one week before you wish to take the pre-test). If you arrange to take any test at an alternate time and do not show for that appointment, then you forfeit the opportunity to take the test except at its originally scheduled time. Students who do not arrange to take examinations in advance will not be eligible for this special consideration. A written excuse from the university department involved or from the Office of Student Engagement and Success is required.

In general, there are NO individual make-up examinations. The grading formulas above give you three chances to earn points from lecture examinations: method 1 or 3 if you miss one lecture examination; method 1 if you miss more than one lecture examination; method 2 if you miss the final examination. The instructor—in consultation with Dr. Don Albrecht, Vice President for Student Engagement and Success—will determine if circumstances warrant
giving an individual a make-up test after the original test. A make-up test given after the original test will be all written (i.e., no multiple choice or matching), and it will be administered on the “Reading Day” for the semester.

**Extra Credit**
There is no extra credit

**Cell Phone Use**
Cell/smart phones and computers: Use of devices that can connect to the internet will not be allowed during the individual or group portion of team learning assignments. If a student is found to be using a cell phone, smart phone, or computer the device will be taken and put on the desk up front so the student can pick up their device after class. Cellular phones, pagers, and other “beepers” must be silenced BEFORE you enter the classroom.

**Laptop Use**
Students are encouraged to use laptop computers if they feel that use of their laptop will be helpful to them. However, as seen above, laptops may not be used during the team learning assignments

**Food in Class**
Please respect other students and limit your eating food in the class.

**Missed Exam**
I will follow University policy should you miss an exam due to a University-related event or religious obligations. For students missing exams for other reasons such as family events or illness, please contact me.

**Participation**
All students are expected to attend the full class and lab periods, complete all learning assignments, complete reading assignments fully and carefully, and to participate in class discussions. A portion of your grade is earned by participation.

**K. COLLEGE AND UNIVERSITY POLICIES**

- **Academic Integrity (University)**
  University students are expected to conduct themselves in accordance with the highest standards of academic honesty. Academic misconduct for which a student is subject to penalty includes all forms of cheating, such as illicit possession of examinations or examination materials, falsification, forgery, complicity or plagiarism. (Plagiarism is the presentation of the work of another as one’s own work.) In this class, academic misconduct or complicity in an act of academic misconduct on an assignment or test will result in a failing grade.
• **Classroom/Professional Behavior**
  Texas A&M University-Corpus Christi, as an academic community, requires that each individual respect the needs of others to study and learn in a peaceful atmosphere. Under Article III of the Student Code of Conduct, classroom behavior that interferes with either (a) the instructor’s ability to conduct the class or (b) the ability of other students to profit from the instructional program may be considered a breach of the peace and is subject to disciplinary sanction outlined in article VII of the Student Code of Conduct. Students engaging in unacceptable behavior may be instructed to leave the classroom. This prohibition applies to all instructional forums, including classrooms, electronic classrooms, labs, discussion groups, field trips, etc.

• **Civil Rights Complaints**
  Texas A&M University-Corpus Christi is committed to fostering a culture of caring and respect that is free from discrimination, relationship violence and sexual misconduct, and ensuring that all affected students have access to services. For information on reporting Civil Rights complaints, options and support resources (including pregnancy support accommodations) or university policies and procedures, please contact the University Title IX Coordinator, Sam Ramirez (Samuel.ramirez@tamucc.edu) or Deputy Title IX Coordinator, Rosie Ruiz (Rosie.Ruiz@tamucc.edu) x5826, or visit website at Title IX/Sexual Assault/Pregnancy.

  **Limits to Confidentiality.** Essays, journals, and other materials submitted for this class are generally considered confidential pursuant to the University's student record policies. However, students should be aware that University employees, including instructors, are not able to maintain confidentiality when it conflicts with their responsibility to report alleged or suspected civil rights discrimination that is observed by or made known to an employee in the course and scope of their employment. As the instructor, I must report allegations of civil rights discrimination, including sexual assault, relationship violence, stalking, or sexual harassment to the Title IX Coordinator if you share it with me.

  These reports will trigger contact with you from the Civil Rights/Title IX Compliance office who will inform you of your options and resources regarding the incident that you have shared. If you would like to talk about these incidents in a confidential setting, you are encouraged to make an appointment with counselors in the University Counseling Center.

• **Statement of Civility**
  Texas A&M University-Corpus Christi has a diverse student population that represents the population of the state. Our goal is to provide you with a high quality educational experience that is free from repression. You are responsible for following the rules of the University, city, state and federal government. We expect that you will behave in a manner that is dignified, respectful and courteous to all people, regardless of sex, ethnic/racial origin, religious background, sexual orientation or disability. Behaviors that infringe on the
rights of another individual will not be tolerated.

- **Deadline for Dropping a Course with a Grade of W (University)**
  The grade of W will be assigned to any student officially dropping a course. There are consequences for dropping a class, so read the drop policy in the University Catalog (better still, consult with the instructor or your academic advisor and someone in the financial aid office) before you decide to drop to be sure it is the best thing to do. Just stopping attendance and participation WILL NOT automatically result in your being dropped from the class. Should dropping the course be the best course of action, visit the Office of the University Registrar for the Course Drop Form that must submitted. No student is eligible to receive a W without completing the official drop process by this deadline. Please consult the Academic Calendar for the last day to drop a course (http://www.tamucc.edu/academics/calendar/).

- **Grade Appeals (College of Science and Engineering)**
  As stated in University Procedure 13.02.99.C0.03, Student Grade Appeal Procedures, a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given in the course. The burden of proof is upon the student to demonstrate the appropriateness of the appeal. A student with a complaint about a grade is required to first discuss the matter with the instructor. For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, see University Procedure 13.02.99.C0.03, Student Grade Appeal Procedures. These documents are accessible through the University Rules website at http://academicaffairs.tamucc.edu/rules_procedures/assets/13.02.99.c0.03_student_grade_appeals.pdf). For assistance and/or guidance in the grade appeal process, students may contact the chair or director of the appropriate department or school, the Office of the College of Science and Engineering Dean, or the Office of the Provost.

- **Disability Services** http://disabilityservices.tamucc.edu/
  The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please call (361) 825-5816 or visit Disability Services in Corpus Christi Hall 116.

  If you are a returning veteran and are experiencing cognitive and/or physical access issues in the classroom or on campus, please contact the Disability Services office for assistance at (361) 825-5816.

- **Statement of Academic Continuity**
  In the event of an unforeseen adverse event, such as a major hurricane and classes could
not be held on the campus of Texas A&M University–Corpus Christi; this course would continue through the use of Blackboard and/or email. In addition, the syllabus and class activities may be modified to allow continuation of the course. Ideally, University facilities (i.e., emails, web sites, and Blackboard) will be operational within two days of the closing of the physical campus. However, students need to make certain that the course instructor has a primary and a secondary means of contacting each student.

Campus Emergencies

At TAMU-CC, your safety is a top concern. We actively prepare for natural disasters or human-caused incidents with the ultimate goal of maintaining a safe and secure campus.

• For any emergency, dial the University Police Department (UPD) at 361-825-4444 or dial 911. It’s a good idea to have the UPD emergency number (and nonemergency number 361-825-4242) saved in your cell phone.
• There are nearly 200 classroom telephones throughout campus. If you feel threatened or need help and don’t have a cell phone, dial 4444 (emergency) or 4242 (non-emergency) to be connected to UPD.
• If we hear a fire alarm, we will immediately evacuate the building and proceed to ______________________(location).
  o Proceed to the nearest building exit or evacuation stair way. Do not use the elevator. Persons who need help navigating stairs should proceed to a marked Area of Rescue Assistance, if possible.
  o Persons with disabilities should speak with their faculty about how to best assist them in case of an emergency. o Review the evacuation route (see specific Building Emergency Plan).
• TAMU-CC employs the Code Blue Emergency Notification System, an alert system which connects the campus community during emergency situations.
  o The notifications include emails, text and pre-recorded messages, as appropriate.
  o Code Blue emergencies may include severe weather warnings, threats, school closures, delays, evacuations and other incidents which disrupt regular campus activities.
  o Students can update personal contact information anytime at https://emergency.tamucc.edu/contactform/ • Shelter in Place via Code Blue.
  o "Shelter-in-place" means to take immediate shelter where you are and may be implemented for severe weather, hazardous material spills, active shooters or other dangerous situations.
  o If there is a shelter in place for a tornado warning, our preferred location is the bottom floor of this building, away from windows and doors.
• Active Threat Protocol. There are three things you could do that make a difference if there is an active threat: Run, Hide, and/or Fight. For more information about the Run, Hide, Fight protocol, including what to do when law enforcement arrives, visit http://safety.tamucc.edu/ems/activethreat.html
For the Quick Campus Guide to Campus Emergencies (including a list of Areas of Rescue Assistance and additional protocols on assisting persons with physical disabilities, hurricanes, bomb threats, animal bites, crime reporting, elevator entrapment, etc.), visit https://safety.tamucc.edu/uploads/Site/finalbooklet.pdf

L. OTHER INFORMATION

- Academic Advising
  The College of Science & Engineering requires that students meet with an Academic Advisor as soon as they are ready to declare a major. The Academic Advisor will set up a degree plan, which must be signed by the student, a faculty mentor, and the department chair. Meetings are by appointment only; advisors do not take walk-ins. Please call or stop by the Advising Center to check availability and schedule an appointment. The College’s Academic Advising Center is located in Center for Instruction 350 or can be reached at (361) 825-3928.

GENERAL DISCLAIMER

I reserve the right to modify the information, schedule, assignments, deadlines, and course policies in this syllabus if and when necessary. I will announce such changes in a timely manner during regularly scheduled lecture periods.