A. **COURSE INFORMATION**

**Course number/section:**  BIOL 1407.890, 891, 894, 895  
**Class meeting time:**  MWF 11:00-11:50 am (Lab: Various; must attend assigned labs)  
**Class location:**  Lecture: RFEB-106  
**Lab:**  Tidal Hall 3rd Floor  
**Course Website:**  (Island Online/Blackboard Portal): [https://bb9.tamucc.edu/](https://bb9.tamucc.edu/)

B. **INSTRUCTOR INFORMATION**

**Instructor:**  Mr. Lee Lehman  
**Office location:**  TH 343  
**Office hours:**  MTWRF 930-1030  
**Telephone:**  361-825-2972  
**e-mail:**  lee.lehman@tamucc.edu  

**Appointments:**  A student may make an appointment to see me at times other than the scheduled office hours. I am available for consultation and extra help, but it is the student’s responsibility to request such help. *If I am unavailable during office hours, I will post a note on my office door.*

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. Specifically, we will cover fundamental concepts regarding population divergence and speciation, evolutionary relationships among the major limbs of the ‘tree of life’, biodiversity, physiological adaptations to deal with different environmental conditions, and global patterns of ecology and conservation.
D. PREREQUISITES AND COREQUISITES

Prerequisites: Biology I (BIOL 1406).
Corequisites: none.

Students in BIOL 1407 are expected to register for Laboratory Safety Seminar – SMTE 0091. Students must complete this web-based course during the first week of the semester to be allowed to enter and attend laboratory. THERE ARE NO EXCEPTIONS TO THIS RULE. Please complete ASAP.

E. REQUIRED TEXTBOOK(S), READINGS AND SUPPLIES

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

Laboratory Manual for Biology 1407, Fall Spring 2018. The lab manual will be available on Blackboard. You do NOT have to purchase a lab manual at the bookstore.

Supplies and Other Requirements:
- Students must bring their school ID to exams.
- Access to BlackBoard will be required.
- See separate Lab Syllabus regarding laboratory.
- All students are required to have a lab coat when entering the labs for any reason. In addition, to the lab coat, students must be wearing long pants and closed-toe, close-heel shoes to enter the labs at any time.

F. STUDENT LEARNING OUTCOMES AND ASSESSMENT

Assessment is a process used by instructors to help improve learning. Assessment is essential for effective learning because it provides feedback to both students and instructors. A critical step in this process is making clear the course’s student learning outcomes that describe what students are expected to learn to be successful in the course. The student learning outcomes for this course are listed below. By collecting data and sharing it with students on how well they are accomplishing these learning outcomes students can more efficiently and effectively focus their learning efforts. This information can also help instructors identify challenging areas for students and adjust their teaching approach to facilitate learning.
By the end of this course, students should be able to:

**SLO 1.** Describe the major factors driving evolution in populations and support this with evidence from nature/literature

**SLO 2.** Summarize the diversity across major lineages of the ‘tree of life’

**SLO 3.** Formulate hypotheses regarding how different organisms may have evolved to take advantage of environmental conditions while maintaining homeostasis

**SLO 4.** Generate informed hypotheses regarding evolutionary relationships of species or groups of species based on shared derived characters

**SLO 5.** Explain to others the importance of biological evolution in shaping the physical world around us and in governing the interactions of living organisms with each other and their environments.

Student’s abilities to complete these tasks will be evaluated through:

1. Five exams (four regular exams and one final)
2. Laboratory activities (see separate syllabus)
3. Homework assignments. Possible (TBD) additional activities which may include: quizzes, group in-class activities or other activities.

**G. INSTRUCTIONAL METHODS AND ACTIVITIES**

Instructional methods may include PowerPoint lectures, videos, group activities, quizzes, supplemental questions and homework, and weekly review sessions via supplemental instructor.

**H. MAJOR COURSE REQUIREMENTS AND GRADING**

Your lecture average is worth 75% of the overall BIOL 1407 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:

- 3 Regular Exams @ 100 percentage points each
- 1 Regular Exams @ 50 percentage points
- Final Exam: 100 percentage points
- Quizzes, Assignments, etc: up to 100 points

**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). If you wish to know your final grade before the official grade report is mailed to you, please see me in person or provide me with a self-addressed, stamped envelope.

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 and MasteringBiology. 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…  
   or 2) the average of the four examinations…  
   or 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.

Quizzes: Quizzes may be given at any time, announced or unannounced, in the beginning of class, middle of class, end of class, online, or take-home. These may be short multiple choice questions, short answer questions, a short writing activity or simply a “minute paper” in which students provide anonymous feedback regarding the course content.

I. COURSE CONTENT/SCHEDULE

The complete course calendar is posted on Blackboard.

Exam dates: 24 February, 30 March, 24 April, 6 May
Final exam is Friday, May 8, from 11:00 am to 1:30 pm

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>Wk1: Jan. 22-24</td>
<td>Course Intro; Syllabus; Genes within Pop.</td>
<td>Read Syllabus; 20</td>
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<td>Wk 2: Jan. 27-31</td>
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<td>Wk 3: Feb. 3-7</td>
<td>Evolution Evidence, Origin of Species</td>
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<td>Wk 4: Feb. 10-14</td>
<td>Origin of Species, Systematics &amp; Phylogeny</td>
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<td>Wk 5: Feb. 17-21</td>
<td>Systematics &amp; Phylogeny, Genome Evolution</td>
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<td>Wk 6: Feb. 24-28</td>
<td>EXAM 1 2/24 (CH 20-24); Origin of Life</td>
<td>EXAM I; 25</td>
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<td>Wk 7: Mar. 2-6</td>
<td>Prokaryotes, Protists</td>
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<tr>
<td>Wk 8: Mar. 9-13</td>
<td>SPRING BREAK (NO CLASS)</td>
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<td>Wk 9: Mar. 16-20</td>
<td>Plants &amp; Fungi</td>
<td>29-31</td>
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<td>Wk. 10: Mar. 23-27</td>
<td>Animals</td>
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<td>Wk 11: Mar. 30-Apr. 3</td>
<td>EXAM II 3/30 (CH 25-34); Behavioral Biology</td>
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<td>Wk 12: Apr. 6-10</td>
<td>Pop. Ecology; Comm. Ecology</td>
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<td>Wk 13: Apr. 13-17</td>
<td>Ecosystem Dynamics; Human Impacts</td>
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<td>Wk 14: Apr. 20-24</td>
<td>Conservation Biology; EXAM III 4/24 (CH 53-58)</td>
<td>58, EXAM III</td>
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<td>Wk 15: Apr. 27-May 1</td>
<td>Plant Form; Animal Form</td>
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<td>Wk 16: May 4-6</td>
<td>Animal Form; EXAM IV 5/6 (CH 35, 41)</td>
<td>35, EXAM IV</td>
</tr>
<tr>
<td>Wk 17: May 8</td>
<td>FINAL EXAM: 11-1:30 Fri., May 8</td>
<td>FINAL EXAM</td>
</tr>
</tbody>
</table>

A complete list of due dates for assignments is on the Blackboard calendar and will not be repeated here.

**J. COURSE POLICIES**

**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.

- **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.C2.01, 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
encouraged 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.C2.01, Student
Grade Appeal Procedures. These documents are accessible through the University Rules
website at http://www.tamucc.edu/provost/university_rules/index.html, and the College of
Science and Engineering Grade Appeals webpage at http://sci.tamucc.edu/students/GradeAppeal.html. 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.

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.