Teaching Assistant: Morgan Bucher

Office: EESAT 272

Email: morganbucher@my.unt.edu

Office Hours: Fridays from 12:00 – 1:00 p.m. or by appointment

Lab Meeting Location: GAB 330D

Lab Meeting Time: Tuesdays from 5:00 p.m.–7:50 p.m.

Schedule:
Following is a tentative schedule for the lab. This may be subject to change depending on availability of materials or other conditions. Labs will use the SimBio educational software, which will be available on the computer labs in GAB 330D. All labs need to be attended in person.

Indicated for each week are the date, subject we will cover, and points for the lab.

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Assignment</th>
<th>Points</th>
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</thead>
<tbody>
<tr>
<td>January 18</td>
<td>NO LAB</td>
<td>NO LAB</td>
<td>0</td>
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<tr>
<td>January 25</td>
<td>Introductions / Evolutionary Evidence</td>
<td>Evolutionary Evidence (Workbook Lab)</td>
<td>5 (completed workbook) 20 (post-lab questions)</td>
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<tr>
<td>February 1</td>
<td>Natural Selection</td>
<td>Finches &amp; Evolution (Workbook Lab)</td>
<td>5 (completed workbook) 20 (post-lab questions)</td>
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<td>February 8</td>
<td>Phylogenetic Reconstruction</td>
<td>Domestication of Dogs (Workbook Lab)</td>
<td>5 (completed workbook) 20 (post-lab questions)</td>
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<td>February 15</td>
<td>Mutation, Genetic Variation and Adaptation</td>
<td>Article Discussion (see Canvas for paper)</td>
<td>20</td>
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<tr>
<td>February 22</td>
<td>Hardy-Weinberg Equilibrium and Genetic Drift</td>
<td>Sickle-Cell Alleles (Tutorial Lab)</td>
<td>20</td>
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</table>
March 1  Genetic Drift  Genetic Drift and Bottlenecked Ferrets (Tutorial Lab)  20
March 8  Population Genetics  Mendelian Pigs (Tutorial Lab)  20
March 15 SB  SPRING BREAK  NO LAB  0
March 22  Natural Selection and Predation  Darwinian Snails (Tutorial Lab)  20
March 29  Sexual Selection  How the Guppy Got Its Spots (Workbook Lab)  5 (completed workbook)
April 5  Evolution of Social Behavior  Article Discussion (see Canvas for paper)  20
April 12  fossil evidence  Video Discussion (see Canvas for link to “Inner Fish” video)  20
April 19  Species Concepts in Animals  Article Discussion (see Canvas for paper)  20
April 26  Neutral Evolution and Molecular Clocks  HIV Clock (Workbook Lab)  5 (completed workbook)
May 3  Population Genetics, Coevolution, and Disease Evolution  How Diseases Spread (Tutorial Lab)  20

TOTAL  305

Canvas:
Information pertaining to class will be posted on Canvas website at https://unt.instructure.com. This may include updates to labs, readings for discussion labs, supplemental readings or announcements. Your grades will be posted as well so you can monitor your progress over the semester. It is wise to make a habit of checking Canvas at least once a day so you do not miss important announcements.

Grades:
Each lab will have a series of post-lab questions or discussion questions worth 20 points, and Workbook Labs will have an additional 5 points per lab for turning in the completed workbook. **This equals 305 points total for the lab. No labs can be dropped, and there will be no bonus or extra credit points. Additionally, grades for the lab will not be curved.** The goal of this lab is to expand and develop the concepts introduced in lecture. Each lab session will be worth 20 points and points will be awarded based on completion of lab assignments, answering post-
lab questions correctly, and participation in class discussions (for discussion-based labs). Some of the simulation modules come with associated workbooks (i.e., SimBio “Workbook Lab”) that will be filled out during the lab session and turned in for a grade (5 additional points per lab) at the end of class; **these 5 points will be in addition to the post-lab questions.** Other simulation labs will have questions that are answered in the context of the lab, and responses will be graded by the SimBio system automatically (i.e., SimBio “Tutorial Labs”). Labs will be graded primarily on completeness (i.e., did you fulfill the requirements of the lab) and on the accuracy of the answers. Ask questions if you are not clear on lab concepts.

In addition to the simulated labs, there will be several in-class article and video discussions that will take place, which will have graded discussion questions. These will be based on a film (i.e., shown during lab) or an article discussed during the lab. The articles will be made available in Canvas one week prior to the lab they are assigned, and you will be expected to read all assigned articles **before coming to class.** Discussion-based labs are a chance for you to develop your understanding of evolution through conversation and debate with your peers and the teaching assistant. If you are hesitant about voicing your opinion in class, be assured that your opinion and level of knowledge will be respected in this class (see General Lab Rules). **However, discussion-based labs only work if students participate. If you choose not to participate in discussions, you will lose points on discussion days.**

**Grade Scale**

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<tr>
<th>Points</th>
<th>Grade</th>
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<tbody>
<tr>
<td>275 - 305</td>
<td>A</td>
</tr>
<tr>
<td>244 - 274</td>
<td>B</td>
</tr>
<tr>
<td>214 – 243</td>
<td>C</td>
</tr>
<tr>
<td>183 - 213</td>
<td>D</td>
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<tr>
<td>&lt; 183</td>
<td>F</td>
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**Attendance:**
Attending class and being on time are your responsibilities. If you miss a class, you will get a zero for the day. Reasonable accommodation may be offered in actual cases of adversity, but you will have to prove your case to my satisfaction. Extreme tardiness is disruptive to the class, and I will deduct half (10) of the points for the day if you are late by 20 minutes or more. Try to get to class on time.
**Attendance During COVID:**
Students are expected to attend all labs and to abide by the attendance policy established for the course. It is important that you communicate with your TA prior to being absent, so you, the TA, and the instructional team can discuss and mitigate the impact of the absence on your attainment of course learning goals. Please inform the TA and instructional team if you are unable to attend class meetings because you are ill, in mindfulness of the health and safety of everyone in our community. If you are experiencing any symptoms of COVID (https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html) please seek medical attention from the Student Health and Wellness Center (940-565-2333 or askSHWC@unt.edu) or your health care provider PRIOR to coming to campus. UNT also requires you to contact the UNT COVID Team at COVID@unt.edu for guidance on actions to take due to symptoms, pending or positive test results, or potential exposure.

**Make-Up Labs:**
Due to the fact that these labs are done in-person using software installed in the GAB 330 computers, there will be no make-up labs; however, if you have a verifiable, accepted excuse (e.g., illness, COVID-19, a death in the family) with a written note from a doctor or other professional and/or a positive COVID test, then we will allow you to drop a lab and your score will be calculated out of 20 less points (i.e., your final score will not including the lab you missed).

**Incomplete (I) Grade:**
Do not ask for an “Incomplete” grade unless you have a MAJOR life event that does not allow you to attend class. I will only give an incomplete grade under extraordinary circumstances. Please refer to the UNT policy regarding incomplete grades.

**Academic Dishonesty:**
Students caught cheating or plagiarizing will receive a "0" for that particular assignment or lab. Additionally, the incident will be reported to the Dean of Students, who may impose further penalty. According to the UNT catalog, the term "cheating" includes, but is not limited to: a.) use of any unauthorized assistance in taking quizzes, tests, or examinations; b.) dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; c.) acquisition, without permission, of tests or other academic material belonging to a faculty or staff member of the university; d.) dual submission of a paper or project, or resubmission of a paper or project to a different class without express permission from the instructor(s); or e.) any other act designed to give a student an unfair advantage. The term "plagiarism" includes, but is not limited to: the knowing or negligent use by paraphrase or direct quotation of the published or unpublished work of another person without full and clear acknowledgment, and the knowing or negligent unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic
materials. For more information, see: Academic Integrity Policy (PDF) (https://policy.unt.edu/sites/default/files/06.049_Standard%20Syllabus%20Policy%20Statements_supplement.pdf).

Disabilities Accommodation:
The University of North Texas makes reasonable academic accommodation for students with disabilities. Students seeking reasonable accommodation must first register with the Office of Disability Access (ODA) to verify their eligibility. If a disability is verified, the ODA will provide you with a reasonable accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request reasonable accommodations at any time; however, ODA notices of reasonable accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of reasonable accommodation for every semester and must meet with each faculty member prior to implementation in each class. Students are strongly encouraged to deliver letters of reasonable accommodation during faculty office hours or by appointment. Faculty members have the authority to ask students to discuss such letters during their designated office hours to protect the privacy of the student. For additional information, refer to the Office of Disability Access website (http://www.unt.edu/oda). You may also contact ODA by phone at (940) 565-4323.

General Lab Rules:
All labs will take place in GAB 330D, which is a computer lab on the third floor of the General Academic Building. Your conduct in this class should conform to the UNT Code of Student Conduct (www.dos.unt.edu/conduct). That being said, we want to encourage a dialogue in this class and nothing stifles dialogue as quickly as disrespect for someone’s opinion or level of knowledge. I expect you to treat your fellow classmates as you want to be treated while expressing your opinion. I want to encourage healthy discussion and even dissent, but disrespect for your fellow students in class discussions is unacceptable.

Acceptable Student Behavior:
Student behavior that interferes with an instructor’s ability to conduct a lab or other students' opportunity to learn is unacceptable and disruptive and will not be tolerated in any instructional forum at UNT. Students engaging in unacceptable behavior will be directed to leave the classroom and the instructor may refer the student to the Dean of Students to consider whether the student's conduct violated the Code of Student Conduct. The university's expectations for student conduct apply to all instructional forums, including university and electronic classrooms, labs, discussion groups, field trips, etc. See https://deanofstudents.unt.edu/conduct for more information. Emergency Procedures and Notifications: Students will be notified by Eagle Alert if there is a campus closing that will impact a class; consequently, the calendar is subject to change. I will also update all students of changes via the course Canvas page. For more information,

**Diversity, Equity, and Inclusion:**
In my lab, regardless of race, gender, age, sexual identity, socioeconomic status, disability status, marital status, religion, and nationality all students are welcome. Everyone belongs here and your contributions are valuable. Mutual respect for each other is the key to the successful completion of the class. I value the many perspectives students bring to our campus. Please work with me to create a classroom culture of open communication, mutual respect, and inclusion. All discussions should be respectful and civil. Although disagreements and debates are encouraged, personal attacks are unacceptable. Together, we can ensure a safe and welcoming classroom for all. If you ever feel like this is not the case, please stop by my office and let me know. We are all learning together.

**Retention of Student Records:**
Student records pertaining to this course are maintained in a secure location by the instructor. All records, such as exams, answer sheets (with keys), and written papers submitted during the duration of the course are kept for at least one calendar year after course completion. Coursework completed via the Canvas online system, including grading information and comments, is also stored in a safe electronic environment. You have a right to view your individual record; however, information about your records will not be divulged to other individuals without proper written consent. You are encouraged to review the Public Information Policy and F.E.R.P.A. (Family Educational Rights and Privacy Act) laws, as well as the university’s policy in accordance with those mandates (see: https://registrar.unt.edu/faculty/ferpa-andstudent-records).