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Course Overview

We reserve the right to make changes to any part of this syllabus, including the scheduled dates for exams or lesson topics and the addition of new assignments. Changes made after the first day of class will be highlighted in green.

BIOL 201: Ecology and Evolution (4 credit hours)

Course Description: With worldwide concerns like global warming, population growth, food and water security, and emerging diseases, it is particularly important for you to understand how your decisions affect the ecosystems around you. In order to make informed decisions you will need a basic understanding of the principles of evolution and ecology. Evolution is the most fundamental concept in biology; it provides the basis for understanding the origin of all biological phenomena. Ecology can be viewed as the theater within which the evolutionary play takes place. Evolution cannot be understood in the absence of ecology and ecology cannot be understood without evolution. Both are essential for a complete understanding of virtually all facets of biology, including how the incredible diversity of life around us originated and is maintained.

This course will enable students to:

1. **Explain** how the interactions between organisms and their environment are related to tradeoffs, feedback, networks at a variety of different scales.
2. **Explain** how the interactions between organisms and their physical environments result in changes over evolutionary time (by natural selection), leading to the organismal diversity we see today.
3. **Explain** the origin of species in the context of natural selection.
4. **Explain** how natural selection is one mechanism of evolution, and contrast it with other mechanisms of evolution.

Prerequisites: BIOL 101 and CHEM 101, with grades of C or better. We assume that each of you has had the equivalent of a semester course in biology wherein you learned Mendelian genetics and enough basic biology to know the major groups of organisms and the terms used for describing them. We also assume a solid background in high school algebra.

Course Website: <https://sakai.unc.edu>

This syllabus, the lecture outlines, guided reading questions, and other useful materials will be posted on the course website throughout the semester. *It is your responsibility to check the website and your UNC email account regularly.*

Class Time and Place*:

201.006 MWF 10:40-11:30am; delivered online via Sakai and Zoom (details in the Lesson Schedule)

201.007 MWF 12:00-12:50pm; delivered online via Sakai and Zoom (details in the Lesson Schedule)

**Recitations will meet online via Zoom. You are required to attend the recitation section in which you are enrolled.*

Office Hours: Office hours will be held via Zoom twice each week between **11:15am - 12:15pm**. Appointments must be reserved in advance using the Sakai Sign-Up tool. If you are unable to meet during our normal office hours, request an alternative appointment by email.

Course Format: Two pre-recorded (asynchronous) and one LIVE Lesson weekly, supplemented with readings, Lesson activities, quizzes, and a once/week recitation.

Dear Students, Read This!

Dear Students,

We are carving out this part of this syllabus just to level with you so you know **what to expect, and how to succeed in this class.**

Stay informed and keep us informed: This class will be taught completely online via remote learning for the first time this fall. How well this goes really depends on all of us! We will do our best to make sure that the expectations (daily, weekly, and for the whole term) are clear and accessible to you. On Sundays you'll get a weekly email from us reminding you of what's due for the week. Please follow along closely! We ask you to provide us with feedback periodically throughout the semester using this [online feedback form](#). **We will make needed adjustments whenever possible.**

Establish a daily and weekly schedule: We have learned that teaching and learning online requires an immense amount of self-motivation and self-awareness for both instructors and students. We will do our best to lay out a path for you to successfully complete the course, but we need you to commit to showing up and trying your best! Read through this syllabus and establish a daily schedule for yourself. You might have other classes, or work, or family obligations to contend with. Reliable internet access may be an issue. Do your best to set a healthy schedule for yourself and start your routine today.

Seek help as soon as you need it: If, and when, things don't go according to plan, or things are confusing, then it's time to get some help. Always try and answer your own question first by doing the following: re-read the syllabus, read old Sakai announcements, search and read old Piazza posts. Then, when you're sure you still have a question, ask away! General questions on Piazza, personal issues via email. We will strive to answer to your emails within 24 hours during the week, but may take a little longer over the weekend (we are human, y'all!).

If you are facing even any kind of personal emergency let us know by email as soon as possible so we can offer assistance. The sooner you let us know you need help, the more help we can offer.

Our tentative day-to-day plan for BIOL 201:

Use the [Lessons Tab in Sakai](#) to stay organized. Each lesson is for a different class period and will tell you what to do/watch/turn in for the day. Some lessons will be built only a few days in advance so please be patient with us! The lesson schedule section of this syllabus will help.

Technically, class meets Monday, Wednesday, and Friday for 50 minutes, but we're going to do a blend of pre-recorded videos and live/recorded Zoom sessions. Twice a week (usually Mondays and Fridays) Lessons will be asynchronous, i.e., recorded in advance. On these days, you can anticipate a reading assignment, pre-recorded videos, practice questions, and a quiz. Once a week (usually on Wednesday), we will hold a LIVE Zoom Lesson during our normal class time. We highly recommend attending these sessions live, but we will record the sessions for students that are for any reason unable to attend. The live sessions will be used both to present new concepts and to practice applying concepts that you learned in the asynchronous Lessons that week.

Both asynchronous and LIVE Lessons will conclude with a short Quiz to help you assess your mastery of the concepts. The Quizzes will be due by 11pm on the day the Lesson is assigned to keep you from falling behind and to give us time to do some grading.

Overall, we recommend that you try for the following: (1) read before our class meeting time, (2) complete the asynchronous or LIVE Lesson during our normal class time, (3) complete the end-of-Lesson Quiz, and (4) reflect on the Lesson before moving on to the next reading assignment and Lesson. This reflection can be done alone, but we highly recommend meeting weekly with a peer instructor or your graduate student TA to have your personal questions answered. A reflection may also look like asking questions on Piazza!

Office Hours: On class days that we are not hosting a LIVE Zoom session, we will hold office hours via Zoom between 11:15am - 12:15pm. You can sign up for a 15 minute private Zoom session using the Sign Up tool in Sakai. These appointments must be reserved in advance and are best used for personal questions. (Use Piazza, Recitation, and Peer Mentoring for content questions.) We encourage you to make use of office hours at least once during the semester. We suspect they will offer our best chance to get to know you better.

Please take care of yourself: If at any point during the term things get difficult for you, please let us know immediately via email. We might ask to meet via Zoom for efficiency's sake, but email is fine, too. We are generally able to make accommodations as long as you communicate with us in the moment. We will not be able to offer assistance when, at the end of the term, you have done some or all of the work, the class is over, and then you let us know things were tough. We know that it can be difficult or embarrassing to ask for help, but timing is everything, so please do everything you can to alert us as soon as you find yourself facing (any) difficulty that prevents you from keeping up with class.

What's it like to learn about ecology and evolution during a global pandemic? We know that there will be days where things will feel especially heavy. When you feel down, take a moment to acknowledge it, maybe even tell us about it on Piazza (there will be others who share your sentiments), and do what you can to restart your day. This class will offer numerous opportunities to learn about the particular challenges facing our society right now. We will learn how concepts from Ecology were used to identify interventions like masks and social distancing as our best chance to "flatten the curve" and how the Evolutionary relationships between coronavirus isolates from different patients were used to identify the onset of community spread in the US. We will also use concepts from Ecology and Evolution to understand that race is a social construct and not a biological one. We are living in overwhelming times. We hope that, by showing up, taking this class and thinking like a scientist about issues with real world relevance, you can feel good about the positive contribution you are making.

We look forward to what this term holds for us.

Onward,

Drs. Evans and Burch**Instructional Team & Office Hours****Instructors****Dr. Mara Evans**

Office: Online via Zoom

Email: mara1@email.unc.edu

Office Hours: by appointment using the Sakai Sign Up tool

Dr. Christina Burch

Office: Online via Zoom

Email: cburch@bio.unc.edu

Office Hours: by appointment using the Sakai Sign Up tool

Teaching Assistants**Brian Lerch**

Office: Online via Zoom

Email: blerch@live.unc.edu

Office Hours: email for appointment

Sections: 701, 704, 706, 707

Heidi Mavengere

Office: Online via Zoom

Email: mavenger@email.unc.edu

Office Hours: email for appointment

Sections: 702, 703, 705, 707

Brian Reatini

Office: Online via Zoom

Email: bsr@live.unc.edu

Office Hours: email for appointment

Sections: 604, 605, 607, 608

Alexander Tate

Office: Online via Zoom

Email: delacy@email.unc.edu

Office Hours: email for appointment

Sections: 601, 602, 603, 606

Peer Instructors

Peer Instructors are former BIOL 201 students who are volunteering their time to assist you virtually via Zoom. Based on your recitation, you will be assigned to a cohort of students (10-15 people) and a peer instructor. The goal is to give you some people to feel connected with. Of course, you are welcome to meet with any peer instructor and

any TA that you want (or that your schedule allows), but our goal is for cohorts to help make a big online class feel smaller.

Peer Instructors serve in two different roles.

Supplemental Instructors will hold 1-2 hours of supplemental instructions outside of class each week (time and locations will be posted to the Sakai Calendar). These sessions will be active review sessions, where you can ask and answer questions and “go over” material from the previous week

Peer Mentors will host small group or one-on-one tutoring sessions, via Zoom. Check the Sakai Calendar for days/times/links. Please make use of these wonderful people.

Communicating with your Instructors

**** If you have a question, please re-read the syllabus and old Piazza posts first to see if your question has already been addressed ****

Non-emergency, non-confidential communications should occur in class and on Piazza, our online class discussion forum. Find our class page at <https://piazza.com/unc/fall2020/biol201>. We are BIOL 201 FALL 2020: Ecology and Evolution (Evans-Burch). The quicker you begin asking questions on Piazza, the quicker you will benefit from the collective knowledge of your classmates and instructors. We encourage you to ask questions when you are struggling to understand a concept—you can even do so anonymously. We, your instructors, view Piazza largely as a forum where students help each other. The teaching staff will weigh in occasionally, but only after we see solid effort to tackle a question. Rather than ask, “What is the answer to question 2?” please tell us what you think the answer is, and why you think it’s correct (or not), or tell your colleagues where you are stuck! This approach sparks conversation, which leads to learning. If you have any problems or feedback for the developers, email team@piazza.com.

Do not hesitate to contact us by email if you need to, but please reserve email for emergency and confidential communications. If you ask us a general question via email, we will redirect you to Piazza and answer publicly in the online venue.

Textbooks, Required Reading, and Guided Reading Questions

There are TWO Required Textbooks

SimUText Ecology electronic textbook

There are two ways to purchase SimUText Ecology:

1. Directly from the publisher's website (follow the instructions below, but skip Step 2)
2. Through the UNC Bookstore (follow all of the instructions below)

We recommend purchasing SimUText directly from the publisher unless your financial aid package requires that you purchase your textbooks through the UNC Bookstore.

It is important that you review the information below *before* you subscribe to the SimUText for **Ecology and Evolution (Burch / Evans)** at **University of North Carolina at Chapel Hill**. **To avoid possible problems, do not wait until the last minute.**

1. CHECK YOUR TECH!

Visit <https://simutext.zendesk.com/hc/en-us/categories/200170134-Check-Your-Tech-> to confirm that the SimUText application will work on your computer, and/or to explore your options if there is a problem.

2. SimUText Voucher Code (optional)

If you purchased a SimUText Voucher from your bookstore, be sure to have it with you when subscribing, as you will need to enter your voucher code.

3. Registration Link

When you are ready to subscribe and download installers, follow this link to initiate the process:

<https://simutext2.com/student/register.html#/key/Uqvu-YELL-esGJ-jeBu-av6R>

4. SimUText Application Installers

After you have completed the subscription process, if you need to download the SimUText application installers again, you will be able to access them by logging into the [SimUText Student Portal](#) (<https://www.simutext2.com/student/>).

If you encounter problems, you may need your course-specific Access Key. It is: **Uqvu-YELL-esGJ-jeBu-av6R**

Problems or questions? Visit [SimUText Support](#) (<http://simbio.com/support/simutext>)

Evolution eBook

Bergstrom C.T. and Dugatkin, L.A. 2016. Evolution, 2nd Edition. WW Norton and Company (Editors). You will have free access during the first few weeks of class, but will need to purchase the Evolution eBook through the UNC bookstore in order to retain that access throughout the semester:

1. **You will receive an email** from the UNC bookstore, prompting you to opt-in to enroll in Digital Delivery and take advantage of the special low price.
2. **Reply to the email** by the cutoff date, that will be specified in the email, to grant authorization to charge your account.
3. **Accept the Terms of Service:** The first time you access the eBook, using the Evolution eBook link in the left hand Navigation menu, you will be prompted to accept a "Terms of Service" agreement.

After that, the link in the Navigation menu will grant you seamless access to Evolution eBook readings.

Reading Assignments

Required reading assignments are listed at the top of each Sakai Lesson. We recommend completing readings **prior** to the Lesson so that you will be better prepared for the practice questions embedded in the Lesson.

Guided Reading Questions (GRQs)

Guided reading questions are provided for all readings to help focus your attention on the material that is most relevant for our class. GRQs are not graded. GRQs for SimUText readings are embedded in the reading itself, and are not provided in a separate word document. The embedded questions help you stay on track and gauge your understanding as you read along. GRQs for readings from the Evolution eBook are provided in a separate Word

document. You can find a link to that GRQ document at the top of each Lesson that includes a reading assigned from the Evolution eBook.

Assignments and Grading Policies

Reading Assignments

Every Lesson will be accompanied by a reading assignment. Readings should be completed before you begin the Sakai Lesson to ensure you are prepared to engage actively in the Lesson material. All readings are accompanied by Guided Reading Questions that will help you focus your attention on the most important concepts. Guided Reading Questions are embedded inside the SimuText readings and are provided in a separate Word document for readings from the Evolution eBook.

Lesson Practice Questions (8% of your grade)

There will be many opportunities for practice throughout the semester. Practice questions will be embedded in every asynchronous Lesson. Correct answers will receive one point each. You will be allowed to drop 10 practice questions from your final grade, to account for technical difficulties and any kind of absences. We will not make any other accommodation for missed questions.

Lesson Quizzes (10% of your grade)

Every Lesson will conclude with an online Quiz that tests your mastery of the Lesson. These quizzes are required, must be completed by 11pm on the day they are due, and will be graded for correct answers. The purpose of these quizzes is to help you practice retrieving and applying what you learned and to help you engage more actively with the Lesson content during our LIVE weekly Zoom sessions. No late quizzes will be accepted.

Exams (72% of your grade)

There will be 4 midterms (12% each) and a cumulative final exam (24%). The midterm exams are not cumulative, except that the advanced material at the end of the course builds on the basic material taught in the beginning. The final exam is cumulative (details below). Exam questions will be taken from lectures, recitation material, and assigned readings. Exams will consist of a variety of question types including: true-false, multiple choice, fill in the blanks, and short answer. Exam style questions will be given for practice during many lectures. Your final exam will consist of 50% material from the last Unit of the class, and 50% material from earlier Units.

Exams will be administered using Gradescope (<https://www.gradescope.com/>). You will automatically be enrolled to the Gradescope class site by August 10 with your UNC email address (check your spam folder). We will administer **a (not graded) practice exam** through Gradescope 1 week before each exam. Exams will be open note and open book (but should not be taken in collaboration with other people) and will be available to take between 10:30am - 1:00pm. Once you begin the exam, you will have 50 minutes to complete it, within the 2.5 hours that the exam is available. Piazza will be closed throughout this period. All exams will include a space at the end that you can use to let us know if you encountered any difficulty (e.g., an ambiguous question or a technology problem) during the exam. Students with ARS accommodation will be given additional time within the exam window, or as determined by your accommodation.

Permission to miss a midterm examination will be granted only in extreme circumstances (e.g. severe illness), must be certified as University excused by the UNC Dean of Student's office, and permission to miss an exam must

be obtained in advance (at least two hours before the exam starts, but the sooner you let us know, the better!). In the event that you obtain permission to miss one midterm examination, you will be offered the option of 1) taking a makeup exam, or 2) of not taking the exam, in which case your overall exam grade will be based on the remaining four exams (midterms 16% each and the final will be 24%). Midterm exams that are missed without advance permission will be given a score of zero points. Students who miss two exams or fail to take the final exam, will fail the course.

RECITATION (10% of your grade)

Ten percent of your grade will come from work done in and for your weekly recitation section. Refer to the separate recitation syllabus for details.

Grade Calculation

Your letter grade will be based on the sum of your performances on quizzes, in-class participation, exams, and recitation according to the following scale:

A:	93-100%	C+:	76-79.9%
A-:	90-92.9%	C:	73-75.9%
B+:	86-89.9%	C-:	70-72.9%
B:	83-85.9%	D:	65-69.9%
B-:	80-82.9%	F:	<65%

In order to achieve a fair grade distribution, at the end of the semester, the instructors may adjust grade thresholds class-wide to improve your letter grades; the thresholds will under no circumstances be adjusted to lower your grades. There will be absolutely NO appeals regarding the final grading scale (e.g. We will not round a score of 89.9 to a 90.0).

Grading Disputes

Scores and final course grades will be changed **ONLY** in the event that an exam question was mis-graded or if exam points were totaled incorrectly. Requests for exam re-grading must be in the form of a **WRITTEN** appeal to the professor teaching that material justifying why your answer should be accepted. This appeal should be submitted via Gradescope (the online exam grading platform we use). For every regrade request we reserve the right to re-grade your entire exam, therefore a regrade request could lead to an increase, decrease, or no change in your exam score. All appeals for changes must be made within **3 calendar days** after the exam is returned. We will not re-grade any question or exam after the 3 days have elapsed, but will still work to correct exam point totals if you find an error.

In-Class Groups

Even though we will be teaching and learning away from a traditional classroom this semester, we want to make sure you feel connected to us and your classmates. By August 10, in time for your first recitation, you will be assigned to a cohort of 10-15 classmates who are also in your recitation and a peer instructor. In recitation and during our LIVE class sessions you will frequently be asked to work with members of your cohort. We encourage you to get to know your group members because you will work with them throughout the term. If you experience conflict with your group members, please let Dr. Burch and Dr. Evans know via email and we will mediate the issue to reach a resolution that allows you to have a productive learning experience.

Lesson Schedule

Please note that this schedule may change if some topics take a longer or shorter amount of time than we expect. Changes will be noted in Sunday Update Emails and here in the Syllabus on Sakai.

The required readings, videos, practice questions, and quizzes associated with each Lesson are described on the individual Lesson pages, accessible through the Sakai Menu Item for each Unit. Note that Quizzes for pre-recorded Lessons become accessible only after you complete the Lesson. All Quizzes are due at 11pm on the lesson due date. Quiz feedback will be released the morning after the Quiz is due. Note that for lesson quizzes you'll know if you answered a question right or wrong, but the answer key will not be provided. You are welcome to discuss quiz answers on Piazza **after** the quiz grades have been returned.

Updates made after the 1st day of class will be marked with green highlighting.

Course Orientation

Week	(Due) Date	Lesson	Topic	Instructor	Lesson Format
1	10-Aug	1	How to succeed	BOTH	LIVE
1	12-Aug	2	Intro to Ecology	ME	pre-recorded
1	14-Aug	3	Intro to Evolution	CB	pre-recorded

Unit 1: Organisms in the Environment

Week	(Due) Date	Lesson	Topic	Instructor	Lesson Format
2	17-Aug	4	Global Natural History	ME	pre-recorded
2	19-Aug	5	Ecosystem Ecology	ME	LIVE
2	21-Aug	6	Nutrient Cycling Part I	ME	pre-recorded
3	24-Aug	7	Nutrient Cycling Part II	ME	pre-recorded
3	26-Aug	8	Physiological Ecology: Photosynthesis	ME	LIVE
3	28-Aug	9	Physiological Ecology: Photosynthesis	ME	pre-recorded
4	31-Aug	10	Adaptation	CB	pre-recorded
4	2-Sep	11	Unit 1 Practice	ME	LIVE
4	4-Sep		Exam 1 (Covers Lesson 1 - 11)		

Unit 2: Life History and Population Growth

Week	(Due) Date	Lesson	Topic	Instructor	Lesson Format
5	7-Sep		Sep 7 Labor Day Holiday		
5	9-Sep	12	Life History	ME	LIVE
5	11-Sep	13	Life Tables	ME	pre-recorded
6	14-Sep	14	Geometric & Exponential Population Growth	ME	pre-recorded
6	16-Sep	15	Logistic Population Growth	ME	LIVE
6	18-Sep	16	Life History Evolution & Aging	CB	pre-recorded
7	21-Sep		Exam 2 (Covers Lessons 12 - 16)		

Unit 3: Population Genetics

Week	(Due) Date	Lesson	Topic	Instructor	Lesson Format
7	23-Sep	17	Genetic Variation and Hardy Weinberg	CB	pre-recorded
7	25-Sep	18	Natural Selection	CB	pre-recorded
8	28-Sep	19	Mutation	CB	pre-recorded
8	30-Sep	20	Population Genetics Practice	CB	LIVE
8	2-Oct	21	Sexual Selection	CB	pre-recorded
9	5-Oct	22	Conservation Genetics	CB	pre-recorded
9	7-Oct	23	Population Genetic Practice	CB	LIVE
9	9-Oct	24	Disease Ecology & Evolution	BOTH	pre-recorded
10	12-Oct		Classes Cancelled for University Day		
10	14-Oct		Exam 3 (Covers Lessons 17 - 23)		

Unit 4: Species Interactions

Week	(Due) Date	Lesson	Topic	Instructor	Lesson Format
10	16-Oct	25	Competition	ME	pre-recorded
11	19-Oct	26	Predation	ME	pre-recorded
11	21-Oct	27	Food Webs	ME	LIVE
11	23-Oct	28	Disturbance, Succession and Community Stability Part I	ME	pre-recorded
12	26-Oct	29	Disturbance, Succession and Community Stability Part II	ME	pre-recorded
12	28-Oct	30	Global Change Ecology	ME	LIVE
12	30-Oct	31	Global Change Ecology	ME	pre-recorded
13	2-Nov		Exam 4 (Covers Lessons 24 - 31)		

Unit 5: Connecting Micro- and Macro-Evolution

Week	(Due) Date	Lesson	Topic	Instructor	Lesson Format
13	4-Nov	32	Molecular Evolution	CB	pre-recorded
13	6-Nov	33	Phylogenetics	CB	pre-recorded
14	9-Nov	34	Speciation	CB	pre-recorded
14	11-Nov	35	Phylogenetics and Speciation Practice	CB	LIVE
14	13-Nov	36	Drivers of Speciation and Extinction	CB	pre-recorded
15	16-Nov	37	Human Evolution	CB	pre-recorded

Recitation Overview

Recitation Meeting Times & Locations

**Attend the recitation section in which you are enrolled! See the attendance policy below.*

Section	Day	Time	TA	Format
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601	Monday	12:00-12:50pm	Alexander Tate	LIVE, via Zoom
602	Monday	1:20-2:10pm	Alexander Tate	LIVE, via Zoom
603	Monday	2:40-3:30pm	Alexander Tate	LIVE, via Zoom
604	Wednesday	12:00-12:50pm	Bryan Reatini	LIVE, via Zoom
605	Wednesday	1:20-2:10pm	Bryan Reatini	LIVE, via Zoom
606	Wednesday	2:40-3:30pm	Alexander Tate	LIVE, via Zoom
607	Friday	12:00-12:50pm	Bryan Reatini	LIVE, via Zoom
608	Friday	1:20-2:10pm	Bryan Reatini	LIVE, via Zoom

Section	Day	Time	TA	Format
701	Wednesday	9:20am-10:10am	Brian Lerch	LIVE, via Zoom
702	Wednesday	10:40-11:30am	Heidi Mavengere	LIVE, via Zoom
703	Wednesday	4:00-4:50pm	Heidi Mavengere	LIVE, via Zoom
704	Friday	9:20-10:10am	Brian Lerch	LIVE, via Zoom
705	Friday	10:40-11:30am	Heidi Mavengere	LIVE, via Zoom
706	Friday	2:40-3:30pm	Brian Lerch	LIVE, via Zoom
707	Friday	4:00-4:50pm	Brian Lerch	LIVE, via Zoom
708	Friday	5:20-6:10pm	Heidi Mavengere	LIVE, via Zoom

Recitation Objectives

- Provide a forum for discussing material presented in lecture;
- Provide practice with the more difficult (especially quantitative) portions of the lectures;
- Evaluate the validity of experimental and observational studies.

Attendance

Students are required to attend recitation sessions; these meet once a week. Recitations start the week of August 10, 2020. If you know you will be absent from a recitation, please email your TA immediately with the day you will miss and the reason you are missing the recitation. We abide by the University Excused Absence policy. Confer with your TA about your personal situation and when/how to turn in your work on time if you miss class. If you find you are unable to attend your recitation section during a particular week, you may attend a different section if you first obtain permission from your TA and the TA of the recitation you will attend. Requests should be submitted to both TAs at least 24 hours in advance of the recitation you wish to attend. Unless otherwise given permission, only attend the recitation section in which you are enrolled. Failure to attend a recitation without an excused absence will result in a score of zero for the day.

Grades

Recitation grades will be based on effort on problem sets or worksheets and participation in your LIVE recitation session weekly. In general you will be asked to complete a short set of practice problems, or questions about a

scientific paper before attending your recitation. These will be graded on effort. Turning in an assignment on time will earn you 5 points for the week. Attending recitation and participating will earn you 1 point for participation. Please see the attendance policy if you anticipate being unable to complete work for recitation for a particular week. Late work will be accepted only with prior TA approval.

Recitation Schedule

Recitation	Week of	Topic
1	10-Aug	Introductions & Orientation
2	17-Aug	Disease Ecology
3	24-Aug	Exam 1 Problem Set
4	31-Aug	Population Growth Activities
	7-Sep	No Recitation
5	14-Sep	Exam 2 Problem Set
6	21-Sep	SARS-CoV-2 Evolution: Paper Discussion
7	28-Sep	Exam 3 Problem Set 1
8	5-Oct	Exam 3 Problem Set 2
	12-Oct	No Recitation
9	19-Oct	Competition and Predation
10	26-Oct	Exam 4 Problem Set
11	2-Nov	Human Genetic Variation: Paper Discussion
12	9-Nov	Final Exam Problem Set

Academic Honesty

Academic honesty means that we respect each other and the work that we do; this means we behave with integrity in and out of the classroom, and do not lie, cheat or steal (e.g. plagiarism is a form of stealing). The University of North Carolina at Chapel Hill has had a student-led honor system for over 100 years. It is our responsibility to report any instances of academic dishonesty and violations of the Honor Code. The student-led Honor System is responsible for adjudicating any suspected violations of the Honor Code. All suspected instances of academic dishonesty will be reported to the Honor System and students will receive a zero on the assignment or exam in question. Your full participation and observance of the Honor Code is expected. Please report any violations that you observe. Information, including your responsibilities as a student is outlined in the Instrument of Student Judicial Governance (here: <https://studentconduct.unc.edu/sites/studentconduct.unc.edu/files/documents/Instrument.pdf>).

Campus Resources

College can be challenging in unexpected ways. It is possible that at some point this semester your multiple competing personal responsibilities and interests may get in the way of your academic success. It is also possible that you may get sick or have other personal emergencies. The bottom line is this: asking for help is a sign of strength and self-care! Please ask for help early and often! Small problems are easier to cope with than escalated issues, or waiting until the end of the semester. While we sincerely hope that you will let us know when things are not going well, here are other campus resources you can turn to, as well:

- **Dean of Students:** If at any time during the semester you experience a personal or family illness, loss, financial stress, academic access, living issues, interpersonal violence response, alcohol or similar substance related issues, and other forces that may interfere with your well-being and success and/or academic retention please contact the Dean of Students immediately (or contact your professor and we will do so for you). Website: deanofstudents.unc.edu
- **Academic Advising:** Your academic advisers are familiar with all of the campus policies, procedures and requirements. Website: advising.unc.edu
- **Counseling and Psychological Services (CAPS):** If you are experiencing any distress please speak with a medical professional in a confidential setting. The CAPS office has daily drop in hours or you may call them for an appointment (919-966-2281) or schedule online (healthyheels.unc.edu). Website: campushealth.unc.edu/services/counseling-and-psychological-services.
- **LGBT Center:** Provides educational services, resources and advocacy. Website: lgbtq.unc.edu
- **Carolina Women's Center:** Aims to provide an equitable working and educational environment regardless of gender. Provides assistance to all individuals regardless of gender orientation. Website: womenscenter.unc.edu
- **International Student and Scholar Services:** offers services to help international students adjust to life in North Carolina and UNC. Website: iss.unc.edu