

BIO 328 – Section 01- 26080
Animal Behavior
***Tentative* Syllabus, Spring 2022 (may be revised with Corona events)**
College of Arts & Sciences Syllabus

COURSE INFORMATION

Lecture time and location: 1615 - 1730 T and R

Zoom Room:

<https://neiu-edu.zoom.us/j/87061661057?pwd=eHVLVWVYxZXc4RHhsdGR5UGdwRjlsUT09>

Meeting ID: 870 6166 1057 Passcode: 104244
One tap mobile +13126266799,,87061661057# US (Chicago)
(for more options, see the links on D2L)

First Day of Classes: We begin on Monday, January 18 2022

Credit Hours: 3

Course Description: Comparative ethology in the animal kingdom and its adaptive significance based upon the evolution of form and function of the nervous system, sense organs and effector organs. Topics include instinct, learning, intelligence, social organization and their physiological integrating mechanisms. Lecture only.

Course Prerequisites: Prerequisites: Prerequisites: BIO-150 minimum grade of C and BIO-201 minimum grade of C and BIO-202 minimum grade of C.

FACULTY INFORMATION

Instructor: Dr. M. Readey. **Zoom Office Space:** <https://neiu-edu.zoom.us/j/3038240479>
Meeting ID: 303 824 0479

Zoom office hours: See my scheduled hours in the chart on the next page. *NB: Office Hours are open to all, but priority will be given to Online Students or Upper Division Students as indicated; If no one in the designated group is signed on, I will be happy to work with other students. However, should a designated member sign on, I will need to attend to them.*

Spring 2022- Classes and Office Hours

	Su	M	T	W	R
10:00			<i>Open Office Hrs (no priority)</i>		<i>Open Office Hrs (no priority)</i>
10:30	<i>Office Hrs (300-level priority)</i>		<i>Open Office Hrs (no priority)</i>		<i>Open Office Hrs (no priority)</i>
11:00	<i>Office Hrs (300-level priority)</i>		<i>Open Office Hrs (no priority)</i>	<i>Office Hrs (online 104 priority)</i>	<i>Open Office Hrs (no priority)</i>
11:30	<i>Office Hrs (300-level priority)</i>		<i>Open Office Hrs (no priority)</i>	<i>Office Hrs (online 104 priority)</i>	<i>Open Office Hrs (no priority)</i>
12:00	<i>Office Hrs (online 104 priority)</i>		Invertebrate Zoology 12:15-2:55 pm	<i>Office Hrs (online 104 priority)</i>	Invertebrate Zoology 12:15-2:55 pm
12:30	<i>Office Hrs (online 104 priority)</i>		Invertebrate Zoology	<i>Office Hrs (online 104 priority)</i>	Invertebrate Zoology
1:00	<i>Office Hrs (online 104 priority)</i>		Invertebrate Zoology	<i>Office Hrs (online 104 priority)</i>	Invertebrate Zoology
1:30	<i>Office Hrs (online 104 priority)</i>		Invertebrate Zoology	<i>Office Hrs (online 104 priority)</i>	Invertebrate Zoology
2:00	<i>Office Hrs (online 104 priority)</i>		Invertebrate Zoology	<i>Office Hrs (online 104 priority)</i>	Invertebrate Zoology
2:30			Invertebrate Zoology 12:15-2:55 pm	<i>Office Hrs (online 104 priority)</i>	Invertebrate Zoology 12:15-2:55 pm
3:00		<i>Office Hrs (online 104 priority)</i>	Office Hours (Upper Division Priority) 3-4pm	break	Office Hours (Upper Division Priority) 3-4pm
3:30		<i>Office Hrs (online 104 priority)</i>	Office Hours (Upper Division Priority) 3-4pm	Office Hours (Upper Division Priority) 3:30-5:00 pm	Office Hours (Upper Division Priority) 3-4pm
4:00		<i>Office Hrs (online 104 priority)</i>	Animal Behaviour 4:15-5:30	Office Hours (Upper Division Priority)	Animal Behaviour 4:15-5:30
4:30		<i>Office Hrs (online 104 priority)</i>	Animal Behaviour	Office Hours (Upper Division Priority)	Animal Behaviour
5:00			Animal Behaviour 4:15-5:30		Animal Behaviour 4:15-5:30

Phone Extension: None. I will be out of the office and teaching from home during covid. I will check my email regularly during the week. In lieu of the phone, you can try contacting me through google chat, but Zoom is the best way to get me during this time.

E-mail: mareadey@neiu.edu

NB: if you stop attending without dropping, you will be issued a grade of F.

NB: Cited from the Schedule of classes, inside front cover: "*POLICY ON FIRST CLASS SESSION ATTENDANCE: Department instructors may reassign a student's seat in a class if the student does not attend the first class session and neglects to inform the instructor in advance of the intended absence. The student will be responsible for any financial consequence if the course is not dropped officially by the student before the appropriate refund deadline. Failure to officially withdraw from class will result in a grade of F.*"

Final Exam Scheduled for Monday, May 10

<https://www.neiu.edu/sites/default/files/documents/jnstewart7/Examination%20Periods%20Spring%202022.pdf>

Examination Periods	Tuesday, May 10, 2022	Wednesday, May 11, 2022	Thursday, May 12, 2022
	Class Time During the Term	Class Time During the Term	Class Time During the Term
8:00-9:50 a.m.	9:25-10:40 a.m. TR	8:30-9:20 a.m. MWF	8:00-9:15 a.m. TR
10:00-11:50 a.m.	12:15-1:30 p.m. TR	9:30-10:20 a.m. MWF	10:50-12:05 p.m. TR
12:00-1:50 p.m.	12:55-2:10 p.m. MW	10:30-11:20 a.m. MWF	8:00-9:15 a.m. MW
2:00-3:50 p.m.	1:40-2:55 p.m. TR	11:30-12:20 a.m. MWF 11:30-12:45 p.m. MW	2:20-3:35 p.m. MW
4:00-5:50 p.m.	4:15-5:30 p.m. TR 4:15-6:55 p.m. T	4:15-5:30 p.m. MW 4:15-6:55 p.m. M	4:15-6:55 p.m. R
6:00-7:50 p.m.	5:40-6:55 p.m. TR	5:40-6:55 p.m. MW 4:15-6:55 p.m. W	7:05-8:20 p.m. MW 7:05-9:45 p.m. W
8:00-9:50 p.m.	7:05-9:45 p.m. T 8:30-9:45 p.m. TR	8:30-9:45 p.m. MW 7:05-9:45 p.m. M	7:05-8:20 p.m. TR 7:05-9:45 p.m. R

COURSE MATERIALS

Text Book

Dustin R. Rubenstein, John Alcock Animal Behavior, 11th edition.

NB: It is important to use the 11th edition because of substantial editions. The 10th edition had significant problems. If you must use an older edition, use the 9th.

Group Book Review: topics variable.

Reading and Presentation Groups

In addition, you will be responsible for participation in one group paper and presentation based upon a book choice. There will be several books available. The group size will be limited to no more than three, and it will be first come first serve for membership in each group.

*Warning: If you do not pull your weight in a group, or if your presence is a hindrance to the others, your group mates may expel you from the group. **Expulsion must be done within the first month. Before it can proceed, the group must have a conference with the instructor who will try to mediate and correct the problems.** If the problem persists, then the expulsion will proceed. You will still be responsible for the presentation of materials. You may try to join another group; if you are unable to join another group, then you will be assigned another text or you will proceed to complete the same text on your own. Removal from the group may be due to lack of participation, but other reasons may lead to separation from a group. Separation should not be considered a negative sign.*

WARNINGS SPECIFIC TO THIS CLASS

During the course of the semester, we will be discussing topics that some people may find uncomfortable. We will have explicit discussions about animal and human sexual behaviour and anatomy. We will discuss spiteful behaviours across species, including genocides and war. We will talk about coerced sexual intercourse across species. And we will discuss gender-specific behaviours across species. Please see the weekly course topics and the book selections for the complete list.

COURSE OBJECTIVES / STUDENT LEARNING OUTCOMES

OBJECTIVES: Comparative ethology in the animal kingdom and its adaptive significance based upon the evolution of form and function of the nervous system, sense organs and effector organs. Topics include instinct, learning, intelligence, social organization and their physiological integrating mechanisms. Through the class, you should develop an understanding of the following organizing concepts:

- I. philosophy of science and the study of animal behaviour**
- II. the proximate and ultimate causes of actions**
- III. the interactive theory of behaviour**
- IV. the physiological aspects of behaviours**
- V. the neurological and hormonal bases for behaviours**

- VI. the role of learning and social interaction in behaviour**
- VII. the role of emotions and fixed patterns on behaviour**
- VIII. how the needs for food, territory, and sex drive behaviour**
- IX. how genetic investment impacts behaviors**
- X. how communication is used to enhance deception**

- XI. how spite can function to enhance reproductive success.
- XII. how to assess behavioural similarities and differences across clades
- XIII. the impact of niche and convergence on behaviour
- XIV. how behaviour can be used to produce hypotheses across clades
- XV. how social behaviour is phenotypic for a group of organisms

- XVI. how social behaviour can enhance or detract from genetic survival
- XVII. how social hierarches evolved and took shape in different clades
- XVIII. how and when play behaviours impact genetic survival
- XIX. human behaviour is on the same spectrum as other animal behaviour

GRADING: STUDENT TASKS / ASSIGNMENTS / REQUIREMENTS

● **Grading:** Your grade will be determined in the following manner

Examination Grade:

Exam 1 (Midterm).....	100 points	
Exam 2	100 points	(Scheduled for our final exam period)
<u>Cumulative Final Exam.....</u>	<u>150 points</u>	
Exam Total	350 points	

Quizzes:.....100 (bonus point included here)

Each of the ten quizzes is worth 11 points with the opportunity to earn bonus points. Only the top nine quizzes will be used to calculate your score. (I know it only adds up to 99 points, but this “missing” point will be more than accounted for through the bonus questions.)

Because of the Corona virus outbreak the remaining part of the semester will be on line. Each meeting will have its own security password. The remaining quizzes will be on line and timed. You will have a week to do them. You are responsible for looking through the PowerPoints before class. We will discuss the principles in the reviews and then go over the PowerPoints with that information in mind.

Book Report and Presentation: 100 points (70 for paper and 30 for presentation)

The paper will be graded upon both form and content. 50% of your grade is based upon the grammar and structure of the paper. The other 50% looks at the analysis and summary of the content. You will lose points for unnecessary fluff and repetitions. You have three-four pages double spaced, 1” margins in Times New Roman or Calibre to make your points. Speak with a single voice, and DO NOT repeat the same materials! Pull what is unique from each section and then summarize the materials to tell your story. All papers should conform to APA style.

Estimated Total Point Score: 550 points.

Final Percentage Grade:

90% + = A 80% + = B 70% + = C 60% + = D < 60% = F

I keep all tests and assignments and I do not use class time to review the results. With remote teaching and the scheduling troubles some people will have with covid, reviewing the quizzes and exams is virtually impossible in class. You are, however, welcome to come and review exams with me. This offer is particularly important if you are not doing well in the class.

Final Exam: *To be done on D2L by the day set by the school!*

● **Exam and Quiz Formats:**

Lecture exams: Lecture exams will consist of multiple-choice questions.

- **I have done my best to avoid having exams fall on major religious holidays. If an exam appears to fall on a holiday for your faith, please let me know at the beginning of the semester (first week), or I will be unable to reschedule the exam. Conflicts with the final exam and a religious holiday must be dealt with on an individual basis. UNLESS NOTIFIED DURING THE FIRST WEEK, I CANNOT RESCHEDULE A PRACTICAL LABORATORY EXAM.**

● **MAKE UP POLICY:** Everyone gets to make up one **quiz** without an excuse. A second missed quiz must have a verifiable excuse. There will be NO make-ups for missed exams other than for extreme emergencies.

● **OTHER STUFF**

1. If you are in the honours section, additional criteria will apply.
2. There is no OFFICIAL policy of required attendance. but I will take attendance regularly during the first three weeks, and randomly after the first three weeks. However, it is unlikely that you will earn an acceptable grade if you do not attend class regularly, because my lectures are key components of the exams. Attendance alone does not guarantee a passing grade. Attendance will be considered in the final grade, especially in borderline cases.
3. **It is important that you take complete and comprehensive notes of the materials.**
4. It is also *essential that you study regularly*. The material in this class does not lend itself to cramming. Learning systematics is like learning the violin. It takes repeated sessions of practice.

5. Expect to spend 4-8 hours per week studying the materials on your own.

6. After each lecture, you should reread and/or rewrite your notes and read the material in the websites again to make sure that you correctly took the notes and fully understand the material that was covered. Rewriting the material longhand is a far more effective memory tool than typing into a computer. Try using two columns, the first listing broad concepts, and the second containing a list of facts and supportive evidence linked to that concept.

7. Look over the study guides prior to class whenever possible. Then use the study guide to organize your notes after class. The sooner you reinforce material, the more likely it is to stick. Prior to the exam, use the study guide to re-assess whether you have learned the material, but do not depend on this guide as quick way to cram. Here are some study for Introductory Biology from other universities. Try some of the following links (available on line):

1. Biology Learning Strategies: [Muskingum College](#)
2. [University of Georgia Marshall Darley](#)
3. [Southern Plains College](#)
4. [Cornell Learning Strategies](#)
5. How to Succeed in Biology: [University of Miami](#)

8. Talking or other disruptive behaviour during lecture will not be tolerated, and you may be asked to leave.

9. Academic dishonesty includes giving, receiving, or using unauthorized aid on any academic work. **This includes a person who has taken a test discussing what was on a test with a person who has not taken the test. Any student guilty of cheating—including-- plagiarism will receive a grade of F and their conduct may be reported to the dean of students for potential further action up to and including expulsion from NEIU.**

Our Meetings: All the dates for the materials are tentative. We may alter our schedule if we find that we need to spend more or less time on one subject, or if weather interferes with class time. We will review our standing and issue any updates to the schedule prior to the examination.

Practice!: JUST ATTENDING CLASS IS INSUFFICIENT TO PASS. You must dedicate home time to study. This material is not cram-able!

Tentative Schedule

The following schedule is subject to revision to allow for more or less time on various topics as needed or because of potential school closures such as snow days.

We may be ahead or behind during any given week. You need to work with me, letting me know when you are having trouble comprehending a section.

Study Tip:

As you learn about behaviours, look for the commonalities among clades of organisms. Impose the particulars (when you can find them) upon the background. Keep in mind that behaviour is an adaptation, just like anatomy and physiology.

And remember the key: successful reproduction to keep the genes that support a behaviour in the gene pool. *Think of the chicken as the egg's way of making another egg, and they you've got it!*

Week of:	Monday	Wednesday
Week 1 Jan 18	AB-001-002* Introduction To Philosophy of Science and Behavior: monogamy	AB-001-002 Introduction To Science and Behavior (example: monogamy)
Week 2 Jan 25	Q1 AB-003-004 Integrative Study of Behavior Proximate and Ultimate Causes: Bird Song	AB-003-004 Integrative Study of Behavior Proximate and Ultimate Causes: Bird Song
Week 3 Feb 1	AB-005 Genes and Environment: I Imprinting and Spatial Learning	AB-006: Bees and Psychopaths: Genes and Environment II
Week 4 Feb 8	Q2 AB-006 Genes and Environment III: Bees and Psychopaths (continued)	AB-007 Regions of the Brain 1
Week 5 Feb 15	Q3 AB-007 Regions of the Brain 2	AB-008 Genes and Behaviour II
Week 6 Feb 22	AB-009: Love and Learning, Revisited	Exam 1 opened AB-010 Neural Mechanisms 1
Week 7 March 1	Q4 AB-011 Neural Mechanisms II: Control Centers	AB-011 Control Centers
Week 8 March 8	Q5 Physiological Basis for Behavior I (continued)	AB-012 What to Eat: Avoiding Predators and Finding Food
Mar 13-20	<u>Spring Break</u>	<u>Spring Break</u>
Week 9 Mar 22	Q6 I AB-012 Avoiding Predators and Finding Food II	AB-012 Feeding Behaviours (finished)
Week 10 Mar 29	Q7 (timed on D2L) AB-013 Habitat Selection 1: Where to live?	Exam 2 (on line) AB-013 Where to live

* AB-0xx refers to the online lectures that are posted on D2L

Week 13 April 5	Presentations	Presentations
Week 14 Apr 12	<u>Q8 (timed on D2L)</u> Presentations AB-014 Communication	AB-014 Communication and AB-015 Social Behavior
Week 15 Apr 19	<u>Q9 (timed on D2L)</u> AB-015 Social Behaviours (Sociobiology)	Social Behavior
Week 16 Apr 26	<u>Q10 (timed on D2L)</u> AB-016 Mating Systems	<i>Cumulative Final Exam posted</i> AB-016 Mating Systems
Week 17 May 3	AB-017 Parenting and Siblinghood	AB-017 Parenting and Siblinghood
Exam Week May 10	<u>CUMULATIVE FINAL EXAM</u> <u>(On D2L Timed)</u> <i>Due by Tuesday: May 10 midnight</i>	

COURSE POLICIES AND STATEMENTS

Attendance and Absence Policies:

• **ATTENDANCE:** *Per university policy, department instructors may reassign a student's seat in a class if the student does not attend the first class session and neglects to inform the instructor in advance of the intended absence. The student will be responsible for any financial consequence if the course is not dropped officially by the student before the appropriate refund deadline. Failure to officially withdraw from class will result in a grade of F.* (Cited from the Schedule of classes, inside front cover: "POLICY ON FIRST CLASS SESSION")

Beyond the dates of initial attendance, the university has not set attendance criterion. However, if you are not present, you cannot earn potential bonus points or take examinations or quizzes. Active attendance remains a strong indicator of success!

Because the tests are based upon lecture materials, it is unlikely that you will earn an acceptable grade if you do not attend class regularly. Because my lectures are key components of the exams, an absence means that you will miss any important changes or verbal additions to the presented material. Attendance will be considered in the final grade, especially in borderline cases. In addition to the quizzes, I will take a pop-attendance several times during the semester. If present, you will receive a few points. Attendance alone does not guarantee a passing grade.

Academic Integrity Policy:

By enrolling in this course, you are bound by the NEIU Student Code of Conduct: <http://www.neiu.edu/university-life/student-rights-and-responsibilities/student-code-conduct>. You will be informed by your instructor of any additional policy specific to your course regarding plagiarism, class disruptions, etc.

ADA Statement:

Northeastern Illinois University (NEIU) complies with the Americans with Disabilities Act (ADA) in making reasonable accommodations for qualified students with disabilities. To request accommodations, students with special needs should make arrangements with the Student Disability Services (SDS) office, located on the main campus in room D104. Contact SDS via (773) 442-4595 or <http://www.neiu.edu/university-life/student-disability-services>.

If you have need of special accommodations because of a disability, you must let me know and present HELP-centre documentation ASAP. In most cases, we can provide accommodations, but I need to know about them to arrange for the accommodation.

Campus Safety:

It is recognized that a safe university environment is a shared responsibility of faculty, staff, and students, all of whom are expected to familiarize themselves with and cooperate with emergency procedures. Web links to Campus Safety: Emergency

Web links to Campus Safety: Emergency Procedures and Safety Information can be found on NEIUport on the MyNEIU tab or as follows:
http://homepages.neiu.edu/~neiotemp/Emergency_Procedures/MainCampus/.

ADDITIONAL COURSE INFORMATION

Late assignments:

Assignments late by one day will receive a 10% grade reduction. Any assignment that is more than one day late will not be graded and will be recorded as a zero.

Missed Examinations:

Typically, there will be no make-ups on examinations without a serious, acceptable, and verifiable reason.

The 2-day Lock-Out Period

To discourage cramming, I will not answer any questions about examination material starting the day before an examination.

Course Communication

All pertinent electronic communications between the instructor and students is conducted exclusively through NEIU e-mail and our D2L site. Thus it is the responsibility of students to check their NEIU e-mail account and the D2L site for all significant information, including updates on class cancellations in the event of threatening weather conditions. Communication between the instructor and students via personal e-mail accounts (e.g., @gmail.com or @yahoo.com) will not occur.

Incompletes

An "I" (incomplete) may be given if a student is absent from the final examination or fails to complete a special research or individual study project **because of some unavoidable circumstance such as illness. Not showing for the exam without a verifiable and acceptable reason will result in a grade of zero, not an I.** Students will have one semester after the incomplete grade has been assigned to remove the incomplete. Incompletes that have not been finished in that time, will be changed to an "F" grade.

Late Work

Late work is strongly discouraged. Turning in work late can impair your chances of success in the course. This late work policy applies to all graded assessments (including the final examination) in the course, with the exception of the discussion threads. Because class discussions require us all to participate during the week when they are active, no make-up or late credit will be allowed for discussion participation. I understand that unexpected things can come up, so the late-work policy for our course is outlined below. *(continued on the next page)*

Serious Emergencies: For serious emergencies, your instructor will decide whether your late work may be accepted for full or reduced credit. Serious emergencies include things like serious illness, accidents, natural disasters, and university server outages. E-mail your instructor the information about your emergency and request approval to make up the assignment, lab, quiz, or exam. If you receive approval, make up the work according to the plan set by you and your instructor.

All Other Unexcused Late Work: Unexcused late work includes course work that is turned in late because of things like job-related, technical, or other personal issues. Your instructor will decide whether your late work may be accepted. A per-day late penalty of 10% of the assignment for an assignment that is one day late (including weekend days). Assignments more than two days late will receive an automatic zero. Due to the requirements involved in grading the project,

Submission of Assignments: Students are expected to complete all assignments. Failure to submit any assignment will result in *a zero on that assignment and an additional deduction of 10 points per missing assignment.* *If homework solutions are shared with the class, your instructor reserves the right to decline to accept late work after the sharing of the solutions, or to require that an alternative assignment be completed, if one is available.*

Submission of Materials

Written assignments will be submitted electronically *and* as a typed copy. Any student file submitted electronically that does not meet the requirements listed will not be graded. Please ensure that files are

- appropriately named (last name-Document title), (Do not simply label your paper “Parasitology Paper”. I may get up to 24 papers with that same title!)
- submitted in Microsoft-Office format (e.g., .doc, .xls., .ppt),* and
- submitted to the corresponding Dropbox folder.

While you are not required to use Microsoft Office products, please ensure your productivity applications are able to import/export into the compatible file formats.

Be aware that when using Google Docs to edit work, formatting changes may happen. Check the final draft of your paper to make certain that it is still in APA style.