

# Course Syllabus

[Jump to Today](#)

 [Edit](#)

## Course Description

This course will introduce you to the field of animal behavior (ethology). We will study the origins, causes, and functions of animal behavior from an evolutionary perspective. In this course, we will learn how animal behavior is studied and how hypothesis testing and models are applied to key topics in animal behavior ranging from sexual selection to cooperation. We will focus on how scientists study and test predictions about animal behavior and what has been learned about the evolution and ecology of animal behavior. The general goal of the course is to develop the ability to think as a scientist. By the end of this course, you should be able to identify an interesting scientific question, formulate a hypothesis, generate testable predictions using biologically informed models, determine how the question could be studied, and critically assess evidence to evaluate the hypothesis. Additionally, this course contains a large writing component, which will allow you to hone your science communication skills to a wide range of audiences.

This course counts as a 4 credit Biology Elective and is intended for students who have completed BIO-110/110L and BIO-111/111L .

## Contact & Class Information

Dr. Jennifer Kovacs

**Email:** [jkovacs@agnesscott.edu](mailto:jkovacs@agnesscott.edu) (<mailto:jkovacs@agnesscott.edu>)

**Office hours:** Zoom Only; I will have office hours on Zoom from 11:40-12:55. You can find the [zoom link for my office hours](#) under the [Announcements](#) page of the course. If you need to schedule a meeting at a different time or in a format other than Zoom please contact me, either by email or through Canvas by using the Inbox icon on the Canvas Global Navigation menu. In that email, please include 3 times that work for you, and I will do my best to accommodate.

### **Class Meetings:**

We'll be **meeting together as a group during the Tuesday class session every week** to work on a case study either as a whole class or in small groups on Zoom. Some Zoom classes will be recorded. When they are I will post them. Additionally, we will have a shared google agenda and class document that you can refer back to as needed. There will be no powerpoints for this class. I will be with you guys the whole time to make sure we all are on the same page and to fill in any gaps- just like in a physical classroom. Here is the [Zoom info](#) in [Announcements](#).

There will be a **weekly assignments due Friday** (including this Friday) based on that case study done in class and a weekly reading and discussion that will be posted under that week's [module](#).

**We won't have class on Thursday** during the scheduled lecture time, though I will be available to you on zoom as an optional drop-in if you have any questions, want to work on the case study a bit more, or just want to chat. Here is the [Zoom info](#) in [Announcements](#).

**We will meet synchronously every Thursday afternoon for lab.** I have a really cool squirrel behavior experiment that each of you will be doing wherever you are (we are creating your equipment packages now and will mail them to you in the next couple of weeks), and we will be contributing our data to a larger nation-wide dataset looking at squirrel foraging behavior. I'm super excited about the project, and we will be meeting during lab time as a group to discuss our experimental planning, original research questions, data collection, data analysis, etc. We will also use that time to have some guest lecturers come and meet with us throughout the semester. Here is the [Zoom info for lab](#) in [Announcements](#).

## ONLINE AND HYBRID EXPECTATIONS

Online and hybrid classes allow for flexibility and convenience. But online and hybrid classes require certain learning traits from you, the student.

1. Persistence and independence – You need to work daily on every class and persist through challenges. When you run into a challenge, make sure you seek help! Remember this is your education and only yours. What you put into it is what you get out of it.
2. Effective Time-Management. Because you need to spend time daily on this class, make sure you schedule that time to make sure you manage your time well! Develop a daily to do and a long term plan for completing the major assignments.
3. Remember that your professors want to help – but as we are on zoom, we may not pick up on the usual non-verbal cues students give us. In a typical classroom, we pick up on confused looks or blank stares. As we don't have those cues, reach out! Email or talk to your group or a learning assistant. Engage with the online discussions including the [Community Forum](#)!
4. Be aware of the software needs and make sure you know how to navigate those programs required for the course. Reach out to ITS or a friend or a YouTube how to video for the software/programs for the class.
5. Additionally, accessibility resources, such as screen readers and magnifiers are available to you both in Canvas (<https://community.canvaslms.com/t5/Canvas-Basics-Guide/What-are-the-Canvas-accessibility-standards/ta-p/1564> [.\(https://community.canvaslms.com/t5/Canvas-Basics-Guide/What-are-the-Canvas-accessibility-standards/ta-p/1564\)](https://community.canvaslms.com/t5/Canvas-Basics-Guide/What-are-the-Canvas-accessibility-standards/ta-p/1564) ) and in the Google Suite (<https://www.google.com/accessibility/products-features/> [\(https://www.google.com/accessibility/products-features/\)](https://www.google.com/accessibility/products-features/) ). If you have accessibility issues with some of our technologies or in general, please do not hesitate to reach out to the Offices of Academic

Advising and Accessible Education for help ([agnesscott.edu/academicadvising/accessible-education/index.html](http://agnesscott.edu/academicadvising/accessible-education/index.html)) (<http://agnesscott.edu/academicadvising/accessible-education/index.html>.)

6. When you are engaging in course material, find a good study space. Turn off your cell phone, be in a comfortable space, minimize any distractions, no TV or games, etc.

## Course Goals and Learning Objectives

The topics and ideas that we cover in class aren't just relevant to this class during this semester. There are skills I want you to develop in this class that you will be able to take with you when you leave, similarly, there are ideas that I want you to continue to think about and evaluate after the semester and even after Spelman. Some of those are listed below.

### *Performance Objectives:*

After completing this course you should be able to:

1. Conduct an independent search of current scientific literature on animal behavior.
2. Generate testable hypotheses based on observations of animal behavior and make predictions based on those hypotheses.
3. Assess results and data and with that knowledge accept/ reject a hypothesis and generate a new set of hypotheses/ predictions to explain the adaptive significance of specific behaviors.
4. Critically evaluate evidence and expert authority in order to think skeptically about issues in the field of animal behavior.
5. Make meaningful contributions during classroom discussions and activities.
6. Work productively in small groups, on writing projects and case studies.
7. Develop polished pieces of writing on scientific subjects through the process of drafting and commenting.

### *Learning Objectives:*

After completing this course you should be able to:

1. Explain the role of evolution in shaping animal behavior.
2. Compare and contrast proximate and ultimate approaches to the analysis of behavior.
3. Distinguish the biologically determined mechanisms that control behavior, including developmental, hormonal and neural mechanisms.
4. Assess the importance of signals and communication in the evolution of behavior.
5. Evaluate the role sensory input plays in behavior.

6. Apply cost-benefit analysis to understanding evolutionary constraints on animal behavior.
7. Examine controversial and unresolved issues in the field of animal behavior, especially Darwinian puzzles such as altruism and conspicuousness.
8. Evaluate behavioral theories using hypothesis testing.

## Class Modules and Assignments for the Semester

The course will consist of [13 modules](#). Each module will contain:

- 1) A chapter reading from the textbook "An Introduction to Behavioural Ecology" by Davies, Krebs, & Stuart
- 2) A weekly discussion question over the textbook reading that is due Tuesday before class
- 3) A second non-textbook reading and asynchronous discussion assignment that is due Friday by 1 PM EST
- 4) Case study questions that will be assigned during Tuesday's synchronous class meeting (11:40- 12:55 EST) and are due Friday by 1 PM EST -- EXCEPT ON EXAM FRIDAYS

### Exams:

All exams will be essay exams. I will give you the question(s) on Tuesday after our class meeting and you have until Friday at 1 PM EST to complete and submit them. They are open book, open note, open resource. My only limitation on your exams is that you do not discuss them with any one else prior to Friday at 1 PM EST. The work that you submit should be your own. You will submit an academic honesty along with every exam. Please do adhere to those standards.

There are 4 exams for this class. Their due dates are in the schedule below. They are equally weighted. There is no final for this class.

### Semester-long Writing Assignment

This semester, we will not only be learning all kinds of really cool stuff about animal behavior, but we will also be working on our ability to communicate what you've learned to a larger audience. Several years back, Dr. Olivia Judson published a fantastic pop science for book about sexual behavior in the animal kingdom called [Dr. Tatiana's Sex Advice to All of Creation](#). In this book, Dr. Judson wrote under the guise of Dr. Tatiana, a kind of Dear Abbey or Dan Savage advice columnist to the animal world, and as this character, she doled out all kinds of fantastic and salacious information about animal sexual behavior in the context of evolutionary biology. We will be reading parts of this book over the course of the semester.

Your assignment this part of the semester will be to write an essay (6 manuscript pages long + references) about an animal's behavior in the advice column style of Dr. Tatiana (Judson, 2002). Your essay should be accessible to the average pop science reader while at the same time contain primary literature sources and be well-seated within the fields of animal behavior and evolutionary biology. You will receive a detailed assignment and rubric for the essay. In order to build up to this final paper, you will produce several assignments including summaries of primary literature, primary literature research, drafts, etc. Due dates for essay assignments will be posted soon.

### Course Schedule: I PROMISE I WILL MAKE THIS PRETTIER TODAY!!!!

Module	Date	Day	Book Chapter	Major Topics	Goals	Assignments	Due Dates
1	August 20	R (Sync)	1: Natural Selection/ Ecology & Behavior		Get familiar with the various platforms. Introduce each other/ tools for semester/ syllabus	Introduce yourself--- visit the this week's watercooler (fun video)--- Perusall assignment of some sort (very simple)	Case Study #1 DUE Friday at 1pm
lab 0	August 20	Lab		Basic outline of lab's this semester	Introduction to lab and expectations		
2	August 25	T (Sync)	2: Testing Hypotheses		Introduce making predictions using models	Pre-class Discussion-- Squirrel Video & Discussion Question from ASU	
	August 27	R (Office)				Individual-- Fine to work in groups, but must be submitted individually (ALL ASSIGNMENTS EXCEPT EXAMS). Please list group members in the assignment submission-- no	Case Study #2 DUE Friday at 1pm

						penalty for working in groups.	
lab 1	August 27	Lab		Ecology of fear	Reading #1--- methods in studying behavior-- designing observation study #1	end of lab-- submit reviewed methodology for observation study	
2	Sept 1	T (Sync)	3: Economic Decisions			Pre-class discussion--- watch foraging video, describe the behavior you're watching, what are some of the potential costs (risks) of this behavior, what are some of the potential benefits, what is a testable hypothesis you could make about the behavior (fine to use one from the book- in fact encouraged)- what is a prediction you could make that would allow you to assess the validity of your testable hypothesis? ----- Discussion question around "What should we do when a model fails to predict observed behavior?"	
	Sept 3	R (Office)				Finish case study questions--Read another paper in Perusall (choose 1)-- answer reading questions-- add it to the summary table 3.1	Case Study #3 DUE Friday at 1pm

lab 2	Sept 3	Lab			Reading #2--- analyzing & presenting observation data-- next steps in observation study	end of lab-- submit figure of data	
3	Sept 8	T (Sync)	4: Predator V/S Prey: Evolutionary Arms Race				
	Sept 10	R (Office)				Exam #1 (Chap 1-4)	EXAM #1 DUE FRIDAY SEPT 11 at 1 pm
lab 3	Sept 10	Lab		craft questions	Reading #3--- crafting a research question	end of lab-- approved group research question	
4	Sept 15	T (Sync)	5: Competition				
	Sept 17	R (Office)					Case Study #4 DUE Friday at 1pm
lab 4	Sept 17	Lab		speaker #1	Reading #4 --- finalizing the research question-- putting together a methodology-- preliminary trial	end of lab-- question/ hyp/ prediction/ variable/ experimental design	
5	Sept 22	T (Sync)	6: Group Living				
	Sept	R					Case







	24	(Office)					Study #5 DUE Friday at 1pm
lab 5	Sept 24	Lab		Craft questions	Reading #5 --- feedback on experimental design	end of lab revision w beginning lit review/ biological justification for research question/ gap in knowledge that this work will fill/ biological interest	
6	Sept 29	T (Sync)	7: Sexual Selection				
	Oct 1	R (Office)					Case Study #6 DUE Friday at 1pm
lab 6	Oct 1	Lab		Speaker #2	Reading # 6-- discussion of the literature		
	Oct 6	(Sync)					
7	Oct 13	T (Sync)	8: Parental Care				
	Oct 15	R (Office)		Speaker #2		Exam #2 (Chap 5-8)	EXAM #2 DUE FRIDAY Oct 16 at 1 pm
lab 7	Oct 15	Lab			Reading #7 --- case study w/ data analysis		
8	Oct 20	T (Sync)	9: Mating Systems				
	Oct 22	R (Office)					Case Study #7 DUE Friday at 1pm



lab 8	Oct 22	Lab		craft questions	Reading # 8-- lab meeting style paper presentation of chosen primary literature paper	
9	Oct 27	T (Sync)	10: Sex Allocation			
	Oct 29	R (Office)				Case Study #8 DUE Friday at 1pm
lab 9	Oct 29	Lab		Speaker #3	Reading # 9-- presentation of first half of research presentation	
10	Nov 3	T (Sync)	11: Social Behaviours: Altruism to Spite	Speaker #3		
	Nov 5	R (Office)				Case Study #9 DUE Friday at 1pm
lab 10	Nov 5	Lab		craft questions	Reading # 10 - - data analysis	
11	Nov 10	T (Sync)	12: Cooperation			
	Nov 12	R (Office)				Case Study #10 DUE Friday at 1pm
lab 11	Nov 12	Lab		Speaker #4	figures	
12	Nov 17	T	13: Altruism			












		(Sync)	Social Insects				
	Nov 19	R (Office)				Exam #3 (Chap 9-13)	EXAM #3 DUE FRIDAY Nov 20 at 1 pm
lab 12	Nov 19	Lab			Final research presentations, data upload and lab wrap- up		









## Course Summary:

Date	Details	Due
	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/12112">Diversity in science</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/12112">(https://agnesscott.instructure.com/courses/2098/assignments/12112)</a>	due by 1pm
Fri Aug 21, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/12198">In Class-- Module #1 Case Study #1-- Extra Pair Copulations and Warblers</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/12198">(https://agnesscott.instructure.com/courses/2098/assignments/12198)</a>	due by 1pm
	 <a href="#">Introducing.....me</a>	to do: 11:59pm
Tue Aug 25, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/12668">Discussion over Davies Chap 1 &amp; 2 DUE BEFORE CLASS TUESDAY</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/12668">(https://agnesscott.instructure.com/courses/2098/assignments/12668)</a>	due by 11:45pm
	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/12749">Case Study #2-- Marsha's Crows</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/12749">(https://agnesscott.instructure.com/courses/2098/assignments/12749)</a>	due by 4pm
Fri Aug 28, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/12897">Dr. Tatiana Chapter</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/12897">(https://agnesscott.instructure.com/courses/2098/assignments/12897)</a>	due by 11:59pm
	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/12946">Reading Questions for Lima et al paper DUE AT END OF LAB</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/12946">(https://agnesscott.instructure.com/courses/2098/assignments/12946)</a>	due by 11:59pm

Date	Details	Due
Tue Sep 1, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/12904">Discussion over Davies Chap 3 DUE BEFORE CLASS TUESDAY</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/12904">https://agnesscott.instructure.com/courses/2098/assignments/12904</a>	due by 11pm
Thu Sep 3, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/13322">Reading for lab #2</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/13322">https://agnesscott.instructure.com/courses/2098/assignments/13322</a>	due by 11:59pm
Fri Sep 4, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/13320">Friday Reading for Chap 3</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/13320">https://agnesscott.instructure.com/courses/2098/assignments/13320</a>	due by 3:59pm
Tue Sep 8, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/13586">Discussion over Davies Chap 4 DUE TUESDAY BEFORE CLASS</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/13586">https://agnesscott.instructure.com/courses/2098/assignments/13586</a>	due by 11:59pm
Fri Sep 11, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/13587">Exam 1</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/13587">https://agnesscott.instructure.com/courses/2098/assignments/13587</a>	due by 11:59pm
Tue Sep 15, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/13998">Discussion for due BEFORE Friday</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/13998">https://agnesscott.instructure.com/courses/2098/assignments/13998</a>	due by 11:59pm
Fri Sep 18, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/14209">Mating Strategies in Voles-- Reading for Discussion</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/14209">https://agnesscott.instructure.com/courses/2098/assignments/14209</a>	due by 4pm
Fri Sep 25, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/14080">Case Study for Competition</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/14080">https://agnesscott.instructure.com/courses/2098/assignments/14080</a>	due by 11:59pm
Fri Sep 25, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/14435">Group Living In-Class Project</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/14435">https://agnesscott.instructure.com/courses/2098/assignments/14435</a>	due by 11:59pm
Tue Sep 29, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/14576">Discussion for BEFORE class Tuesday: Sexual Selection</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/14576">https://agnesscott.instructure.com/courses/2098/assignments/14576</a>	due by 11:59pm
Tue Sep 29, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/14613">Origin and Evolution of Leadership-- Paper Discussion on Perusal DUE Tuesday Sept 29</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/14613">https://agnesscott.instructure.com/courses/2098/assignments/14613</a>	due by 11:59pm
Fri Oct 2, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/14934">Essay or Unessay on Squirrel Behavior Project</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/14934">https://agnesscott.instructure.com/courses/2098/assignments/14934</a>	due by 11:59pm

Date	Details	Due
	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/14617">In-Class Case Study-- Investigating Good Genes &amp; Hamilton-Zuk</a> ( <a href="https://agnesscott.instructure.com/courses/2098/assignments/14617">https://agnesscott.instructure.com/courses/2098/assignments/14617</a> )	due by 11:59pm
Tue Oct 6, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/14618">Perusall Paper Reading-- Parental Care &amp; Sexual Selection</a> ( <a href="https://agnesscott.instructure.com/courses/2098/assignments/14618">https://agnesscott.instructure.com/courses/2098/assignments/14618</a> )	due by 11:59pm
Fri Oct 9, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/15220">First Draft of Dear Doctor Letter-- DUE Friday 10/9</a> ( <a href="https://agnesscott.instructure.com/courses/2098/assignments/15220">https://agnesscott.instructure.com/courses/2098/assignments/15220</a> )	due by 11:59pm
Tue Oct 13, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/14577">Discussion for BEFORE class Tuesday Parental Care</a> ( <a href="https://agnesscott.instructure.com/courses/2098/assignments/14577">https://agnesscott.instructure.com/courses/2098/assignments/14577</a> )	due by 11:59pm
Thu Oct 15, 2020	 <a href="#">Squirrel Project for Oct &amp; Nov</a>	to do: 11:59pm
Sun Oct 18, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/14616">Exam 2</a> ( <a href="https://agnesscott.instructure.com/courses/2098/assignments/14616">https://agnesscott.instructure.com/courses/2098/assignments/14616</a> )	due by 11:59pm
Tue Oct 20, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/14578">Discussion for BEFORE class Tuesday Mating Systems</a> ( <a href="https://agnesscott.instructure.com/courses/2098/assignments/14578">https://agnesscott.instructure.com/courses/2098/assignments/14578</a> )	due by 11:59pm
Fri Oct 23, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/15679">Dear Doctor Assignment 2 paragraph summary DUE Friday 10/23</a> ( <a href="https://agnesscott.instructure.com/courses/2098/assignments/15679">https://agnesscott.instructure.com/courses/2098/assignments/15679</a> )	due by 11:59pm
	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/15898">Mating Systems: Dunnock Case Study Due Friday</a> ( <a href="https://agnesscott.instructure.com/courses/2098/assignments/15898">https://agnesscott.instructure.com/courses/2098/assignments/15898</a> )	due by 11:59pm
Tue Oct 27, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/14579">Discussion BEFORE class Tuesday Sex Allocation</a> ( <a href="https://agnesscott.instructure.com/courses/2098/assignments/14579">https://agnesscott.instructure.com/courses/2098/assignments/14579</a> )	due by 11:59pm
Fri Oct 30, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/15681">Annotated Bibliography for Dear Dr. Letter DUE Sunday 11/1</a> ( <a href="https://agnesscott.instructure.com/courses/2098/assignments/15681">https://agnesscott.instructure.com/courses/2098/assignments/15681</a> )	due by 11:59pm

Date	Details	Due
Tue Nov 3, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/14580">Discussion for BEFORE class Tuesday Social Behaviors</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/14580">(https://agnesscott.instructure.com/courses/2098/assignments/14580)</a>	due by 11:59pm
Fri Nov 6, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/16248">Sex Allocation Case Study</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/16248">(https://agnesscott.instructure.com/courses/2098/assignments/16248)</a>	due by 11:59pm
Tue Nov 10, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/16661">Questions for our Speaker Lauren Benedict in Lab this Thursday</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/16661">(https://agnesscott.instructure.com/courses/2098/assignments/16661)</a>	due by 11:59pm
Fri Nov 13, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/14581">Discussion for AFTER class Tuesday Cooperation</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/14581">(https://agnesscott.instructure.com/courses/2098/assignments/14581)</a>	due by 11:59pm
Fri Nov 20, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/17102">Altruism Simulation Case Study Due Friday</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/17102">(https://agnesscott.instructure.com/courses/2098/assignments/17102)</a>	due by 11:59pm
Wed Dec 2, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/15684">Draft #2 DUE 11/20</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/15684">(https://agnesscott.instructure.com/courses/2098/assignments/15684)</a>	due by 11:59pm
Mon Dec 7, 2020	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/15686">Exam 3- DUE DEC 7</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/15686">(https://agnesscott.instructure.com/courses/2098/assignments/15686)</a>	due by 11:59pm
	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/15685">Final Draft- Due Dec 7</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/15685">(https://agnesscott.instructure.com/courses/2098/assignments/15685)</a>	due by 11:59pm
	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/16837">Cooperation Case Study</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/16837">(https://agnesscott.instructure.com/courses/2098/assignments/16837)</a>	
	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/14213">Discussion for BEFORE class Tuesday</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/14213">(https://agnesscott.instructure.com/courses/2098/assignments/14213)</a>	
	 <a href="https://agnesscott.instructure.com/courses/2098/assignments/15683">Draft #1 DUE Monday 11/9</a> <a href="https://agnesscott.instructure.com/courses/2098/assignments/15683">(https://agnesscott.instructure.com/courses/2098/assignments/15683)</a>	

Date	Details	Due
	 <a href="#">Friday Reading about Publication Bias</a> ( <a href="https://agnesscott.instructure.com/courses/2098/assignments/15929">https://agnesscott.instructure.com/courses/2098/assignments/15929</a> )	
	 <a href="#">Google Doc</a> ( <a href="https://agnesscott.instructure.com/courses/2098/assignments/20934">https://agnesscott.instructure.com/courses/2098/assignments/20934</a> )	
	 <a href="#">In class Group Work-- Case Study #3 Optimal Diet Model</a> ( <a href="https://agnesscott.instructure.com/courses/2098/assignments/13290">https://agnesscott.instructure.com/courses/2098/assignments/13290</a> )	
	 <a href="#">In class Group Work-- Case Study #4 Brood Parasitism</a> ( <a href="https://agnesscott.instructure.com/courses/2098/assignments/13654">https://agnesscott.instructure.com/courses/2098/assignments/13654</a> )	
	 <a href="#">In-Lab Presentation on Squirrel Behavior Project</a> ( <a href="https://agnesscott.instructure.com/courses/2098/assignments/14430">https://agnesscott.instructure.com/courses/2098/assignments/14430</a> )	
	 <a href="#">Research Question</a> ( <a href="https://agnesscott.instructure.com/courses/2098/assignments/14205">https://agnesscott.instructure.com/courses/2098/assignments/14205</a> )	
	 <a href="#">Spider Summary</a> ( <a href="https://agnesscott.instructure.com/courses/2098/assignments/15556">https://agnesscott.instructure.com/courses/2098/assignments/15556</a> )	
	 <a href="#">Submit Squirrel Observations Here</a> ( <a href="https://agnesscott.instructure.com/courses/2098/assignments/13824">https://agnesscott.instructure.com/courses/2098/assignments/13824</a> )	