INTRODUCTION TO ANIMAL BIOLOGY
BIOL 160, Fall 2020
Section 03H (Honors)
Syllabus Addendum

There will be additional assignments and course activities specifically for the honors students in this course. Points for these assignments will be added to the total points for the course and will count toward your final grade. The point breakdown for these assignments is as follows:

Thought Questions	40 pts
Research Proposal	10 pts
Semester-Long Group Project	40 pts
Total	90 pts

Thought Questions: Approximately twice per unit (8 @ 5 pts each), you will be given thought questions, with a typed response/answer due the following week. These questions are intended to spur your thinking on content we are considering in lecture or laboratory, so there may not be a single, or even a correct, answer. For these assignments, you are encouraged to consult multiple sources and discuss your thoughts/ideas with your classmates. You will be graded (individually) on the quality of your typed response and discussion participation.

Research Proposal: During the semester, all students in the course will be required to give an Animal Diversity presentation (details to follow). For this assignment, you will expand on that presentation by creating a short research proposal involving the animal you chose for that presentation. Your proposal will address an issue or question relevant to the animal and to course content. For example, you could propose to study the impact of climate change on your animal's migratory patterns, or the influence of food availability on reproductive cycles, etc. A rubric outlining expectations will be provided.

Semester-long Group Project: For this assignment, you will work in groups of 3-4 students (to be assigned randomly during the second or third week of class). As a group, you will choose ONE of the following to work on over the semester:

1. A board game (with complete instructions)
2. A video (with typed transcript)
3. A children's book (with illustrations)

For whatever medium you choose, you should cover EITHER:

1. A group of animals (e.g. the Phylum Porifera)
2. A biological process relevant to animal biology (e.g. cellular respiration) OR
3. A physiological system (e.g. digestion)

Again, a rubric outlining expectations will be provided.

Please see the following for a schedule of due dates and mark your calendars accordingly.

HONORS SCHEDULE	Week	Dates	Lecture Topic	Chapter	Honors Assignment Schedule
Unit 1: Macromolecules and the Cell	1	M 8/31	No Class		
		W 9/2	Introduction to Animal Biology	1	
		F 9/4	Chemistry of Life	2	**Thought Question 1 Assigned**
	2	M 9/7	***Labor Day Holiday***		
		W 9/9	Water and Life	3	
		F 9/11	Macromolecules	5	**Thought Question 1 Due; Thought Question 2 Assigned**
	3	M 9/14	Macromolecules	5	
		W 9/16	Cellular Organization	6	
		F 9/18	Cell Membranes	7	**Thought Question 2 Due**
	4	M 9/21	Cellular Communication	11	
		W 9/23	Cellular Communication	11	
		F 9/25	**Exam 1**		**Thought Question 3 Assigned**
Unit 2: From DNA to RNA to Protein	5	M 9/28	Cellular Respiration	8 & 9	
		W 9/30	Cellular Respiration	8 & 9	
		F 10/2	Mitosis and the Cell Cycle	12	**Thought Question 3 Due**
	6	M 10/5	Meiosis	13	
		W 10/7	Patterns of Inheritance	14	
		F 10/9	Chromosomal basis for inheritance	15	**Thought Question 4 Assigned**
	7	M 10/12	Chromosomal basis for inheritance	15	
		W 10/14	Molecular basis for inheritance	16	
		F 10/16	Molecular basis for inheritance	16	**Thought Question 4 Due**
	8	M 10/19	Gene Expression	17	
		W 10/21	Gene Expression	17	
		F 10/23	**Exam 2**		**Thought Question 5 Assigned**
Unit 3: Animal Diversity, Reproduction, and Development	9	M 10/26	Animal Diversity	32	
		W 10/28	Invertebrates	33	
		F 10/30	Invertebrates	33	**Thought Question 5 Due**
	10	M 11/2	Vertebrates	34	
		W 11/4	Vertebrates	34	
		F 11/6	Animal Reproduction	46	**Thought Question 6 Assigned**
	11	M 11/9	Animal Reproduction	46	
		W 11/11	Animal Development	47	
		F 11/13	Animal Development	47	**Thought Question 6 Due**
		M 11/16	**Exam 3**		
Unit 4: Animal Form and Function	12	W 11/18	Basic Principles	40	**Thought Question 7 Assigned**
		F 11/20	Animal Nutrition	41	
	13	M 11/23	Circulation and Gas Exchange	42	
		W 11/25	Circulation and Gas Exchange	42	**Thought Question 7 Due; Animal Research Proposal Due**
		F 11/27	***Thanksgiving Holiday***		
	14	M 11/30	Hormones & Endocrine System	45	
		W 12/2	Hormones & Endocrine System	45	
		F 12/4	Neuronal Signaling	48	**Thought Question 8 Assigned**
	15	M 12/7	Neuronal Signaling	48	
		W 12/9	Nervous System	49	
		F 12/11	Osmoregulation	44	**Thought Question 8 Due**
	Finals Week	W 12/16	**Exam 4: 2:45-4:45 p.m.**		**Semester Project Due**