

Bio 1000: Principles of Biology 1
Evolution, Classification, Population Biology and Ecology
Monday & Thursday 7:30-8:55 in Sullivan Hall (SUL B14)

Dr. Juan C Santos, Office 239, St. Albert Hall, ext. 1656
santosj@stjohns.edu, Office Hours: Monday 1-2h30pm, Thursday 1-2h30pm.

	Date	Lecture Topic	Chapter
1	Aug. 31	An Introduction to Biology	1
	Sept. 4	NO CLASS	
2	Sept. 6	The Origin and History of Life on Earth	22
3	Sept. 7	The Origin and History of Life on Earth	22
4	Sept. 11	Taxonomy and Systematics	26
5	Sept. 14	Plants and the Conquest of Land	29
6	Sept. 18	Plants and the Conquest of Land	29
7	Sept. 21	Evolution & Diversity of Modern Gymnosperms/Angiosperms	30
8	Sept. 25	Evolution & Diversity of Modern Gymnosperms/Angiosperms	30
9	Sept. 28	Exam 1 (Chapters 1, 22, 26, 29 and 30)	
10	Oct. 2	An Introduction of Evolution	23
11	Oct. 5	Population Genetics	24
	Oct. 9	NO CLASS	
12	Oct. 12	Population Genetics	24
13	Oct. 16	Origin of Species and Macroevolution	25
14	Oct. 19	An Introduction to Animal Diversity	32
15	Oct. 23	The Invertebrates	33
16	Oct. 26	The Invertebrates	33
17	Oct. 30	The Vertebrates	34
18	Nov. 2	Exam 2 (Chapters 23, 24, 25, 32, 33, and 34)	
19	Nov. 6	An Introduction to Ecology and Biomes	54
20	Nov. 9	An Introduction to Ecology and Biomes	54
21	Nov. 13	Ecology	56
22	Nov. 16	Species Interactions	57
23	Nov. 20	Community Ecology	58
	Nov. 23	NO CLASS	
24	Nov. 27	Ecosystem Ecology	59
25	Nov. 30	Biodiversity & Conservation Biology	60
26	Dec. 4	Exam 3 (Chapters 54, 56, 57, 58, 59, and 60)	
	Dec.	FINAL cumulative exam	

Course Requirements:

There will be approximately 26 80-minute lecture sessions. Most classes will consist of lectures supported by PowerPoint presentations and/or video segments. Class participation and discussion is encouraged.

The required texts are:

- Lecture (BIO 1000) – *Brooker Biology*, 4th ed. (2017). Brooker, Widmaier, Graham, Stiling. Must include access to Connect Online. 978-1259991387

- Lab (BIO 1001L) – *Biology Laboratory Manual – Fundamentals of Biology I – BIO 1001L* (2011). ISBN 978-1-12-125809-9.
 - Can ONLY be bought in bookstore or directly from McGraw Hill.

Exams – There are three semester exams (30% for two highest scores) and one final cumulative exam (25%). Your lowest semester exam grade will be dropped. Therefore 85% of your lecture grade will be made up of your two highest semester exams (30% + 30%) and the final (25%). (Note: the final exam score is not included in the exams that can be dropped.) If you miss a semester exam, that will be your dropped grade. If you miss more than one semester exam, you must see me immediately. The remaining 15% of your lecture grade will be determined by the completion of all McGraw Hill Connect online LearnSmart assignments. It will be a total of 17 assignments each of 100 points. You are allowed to skip 2 assignments or I will drop your 2 lowest. This means that if you complete 16, I will drop your lowest assignment.

Laboratory and total grade – Lecture performance determines 70% of your course grade. Laboratory performance (exams, quizzes, participation, etc.) determines 30% of your course grade. Both lecture and laboratory are required in order to receive a final grade for the course. **Regardless of your lecture average, you will receive an “F” in the course if you do not attend the labs.**

McGraw Hill Connect online – This online program is extremely useful in furthering your understanding of the course material. There will be 1 assignment for each chapter that we cover over the course of the semester which each take roughly an hour to complete. These LearnSmart Assignments are due on the date listed on the website. **Do these early, I will not hear excuses that your internet went down!** All you have to do is thoroughly complete the assignment and make sure you have not missed any parts. Therefore, it should be easy to get full credit for 15% of the lecture grade.

Connect course ID: santos_bio1000_fall2017

Course Web Address: http://connect.mheducation.com/class/santos_bio1000_fall2017

How to register FAQ: www.mheducation.com/highered/platforms/connect/faq.html

(check info for students)

Attendance Policy - Attendance is at the discretion of the student, but note that if you regularly miss classes it will be noticed. Topics that are discussed in class may appear on exams whether or not they are specifically discussed in the textbook. In short, it is to your benefit to attend class. If you do miss a class it is your responsibility to contact a fellow student or your professor to discover what material or information you may have missed.

Class Etiquette - Courtesy, politeness, common sense. No “sidebar discussions” while the professor is lecturing. Put cell phones on vibrate; if you receive a call do not answer! No texting or web surfing during class. Failure to follow these simple guidelines will result in you being asked to leave the classroom.

Plagiarism and Cheating - zero tolerance for either. If you are caught, the best you can hope for is a “0” for the assignment; other options are an official letter in your file, a visit to the Dean and/or expulsion from the class or University. See the Academic Honor Pledge.

Students with Disabilities – If you need assistance due to a documented disability, please contact the Department of Student Life as soon as possible to coordinate any accommodations.

Lecture Grading Protocol – The grade scale is shown below. **Individual extra credit will neither be assigned nor accepted.**

Grade	Equivalent Numerical Range
A	92.0-100
A-	89.5-91.9
B+	84.5-89.4
B	82.0-84.4
B-	79.5-81.9
C+	74.5-79.4
C	72.0-74.4
C-	69.5-71.9
D+	64.5-69.4
D	59.5-64.4
F	Less than 59.5

Good luck!!!