

## BIOLOGY 445-002: ENDOCRINOLOGY

<b>INSTRUCTOR:</b>	Dr. John Yarotsky	<b>EMAIL:</b>	<a href="mailto:yarotsky@njit.edu">yarotsky@njit.edu</a>
<b>OFFICE:</b>	340C Central King Bldg.	<b>OFFICE HOURS:</b>	T: 3:00PM – 5:00PM
<b>COURSE SCHEDULE:</b>	M, W: 11:30AM – 12:55PM * CKB 315	<b>COURSE WEBSITE:</b>	<a href="http://moodle.njit.edu/">http://moodle.njit.edu/</a>

**COURSE DESCRIPTION:** The course will cover the entire human endocrine system from both an anatomical and physiological perspective. The development, gross anatomy, regulation and interaction between various endocrine components will be discussed. Emphasis will be placed on student learning through detailed examinations of endocrine disorders in order to apply critical thinking about the endocrine system in a real world context.

**PREREQUISITES:** Mammalian Physiology (BIOL 340 or R120:340) and Cell Bio (R120:355) or Molecular Bio (R120:356).

**REQUIRED TEXT:** Endocrine Physiology; 4th Edition © 2013 By Patricia E. Molina; McGraw-Hill Incorporated; ISBN-13: 978- 0071796781.

### COURSE REQUIREMENTS, EVALUATION PROCEDURES AND POLICIES:

GRADING	POINTS
Exams (3)	120 points
Clinical Discussions (3)	60 points
Assignments (24)	170 points
Attendance & Participation	75 points
Case Study Presentation & Write-ups	150 points
<b>TOTAL</b>	<b>575 points</b>

GRADING SCALE			
A	90-100	C	65-74
B+	85-89	D	50-64
B	80-84	F	0-49
C+	75-79		

- ⊕ All exams count equally and the lowest grade will not be dropped.
- ⊕ Homework must be turned in on the date specified and will receive 10% off for each late day.
- ⊕ Exams can only be made up for valid reasons (see the University's policy regarding make up exams) and must be accompanied by valid documentation (Dr.'s note, hospital bill, etc.).
- ⊕ There are no extra credit assignments.
- ⊕ Exams, homework, etc. will not be curved.

**ACADEMIC INTEGRITY:** The University's Code of Academic Integrity will be enforced in regard to exams and plagiarism. If the student is unfamiliar with the University's code please consult the website for clarification of violations and punishments: <http://www.njit.edu/education/pdf/academic-integrity-code.pdf>.

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**TENTATIVE COURSE SCHEDULE:**

WEEK   DATE	GENERAL PLAN & TEXTBOOK READINGS	
1: 01/21	Introduction <b>In class:</b> Organization/ Plan/Goals/Groups	Read Chapter 1 for class next week (General Principles of Endocrine Physiology) Do Problem Set #1 for HW
2: 01/26 & 28	General Endocrinology	Read Chapter 2 for class next week Do Problem Set #2 for HW (Due 2/2)
3: 02/2 & 4	Hypothalamus & Posterior Pituitary; <b>In class (2/4):</b> Example Case Study Presentation (by Dr. Yarotsky)	Read Chapter 3 for class next week Do Problem Set #3 for HW (Due 2/19)
4: 02/9 & 11	Anterior Pituitary <b>In class (2/11):</b> Case Study Presentation Groups #1/2	Read Chapter 4 for class next week Do Problem Set #4 for HW (Due 2/16)
5: 02/16 & 02/18	Thyroid Gland <b>In class (2/18):</b> Case Study Presentation Groups #3/4	
6: 02/23 & 25	<b>EXAM I: FEBRUARY 25, 2015</b>	Read Chapter 5 for class next week Do Problem Set #5 for HW (Due 3/2)
7: 03/2 & 4	Parathyroid Gland <b>In class:</b> Case Study Presentation Groups #5	Read Chapter 6 for class next week Do Problem Set #6 for HW (Due 3/9)
8: 03/9 & 11	Adrenal Gland <b>In class:</b> Case Study Presentation Groups #6/7	Read Chapter 10 for class the week of 3/24 Do Problem Set #7 for HW (Due 3/23)
9: 03/16 & 18	<b>MARCH 16-20: SPRING RECESS</b>	
10: 03/23 & 25	Endocrine Integration of Energy & Electrolyte Balance; <b>In class:</b> Case Study Presentation Group #8/9	Read Chapter 7 for class next week Do Problem Set #8 for HW (Due 3/30)
11: 03/30 & 4/1	Endocrine Pancreas <b>In class:</b> Case Study Presentation Group #10/11	<b>Withdrawal Deadline 3/30</b>
12: 04/6 & 8	<b>EXAM II: APRIL 8, 2015</b>	Read Chapter 8 for class next week Do Problem Set #9 for HW (Due 4/13)
13: 04/13 & 15	Male Reproductive System <b>In class:</b> Case Study Presentation Group #12/13	Read Chapter 9 for class next week Do Problem Set #10 for HW (Due 4/20)
14: 04/20 & 22	Female Reproductive System <b>In class:</b> Case Study Presentation Group #14/15	
15: 04/27 & 29	Pregnancy	
16: 05/04	<b>EXAM II I: MAY 4, 2015</b>	
<b>FINAL EXAM WEEK: MAY 8-14, 2015</b>		