

**Instructor:** Dr. Mark A. Grobner

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**Phone:** 667-3628

**Email:** mgrobner@biology.csustan.edu

**Office Hours:** T 10:00-12:00 pm

R 1:00-2:00 pm

**Lectures:** MWF 1:00-1:50 pm

**Prerequisite:** Biol 1050/1150, Chem 3010/3012

**Satisfies 3 elective units for the biology major**

**Required Text:** Endocrinology, 6<sup>th</sup> ed., Mac E. Hadley, Prentice Hall, ISBN: 0131876066

**Recommended Text:** Vertebrate Endocrinology, 4<sup>rd</sup> ed., David O. Norris, Academic Press, ISBN 0-12-088768-1

Human Anatomy & Physiology, 8<sup>th</sup> ed., Elaine N. Marieb, Benjamin Cummings, ISBN: 0321694155

**Course Web Page:** <http://biology.csustan.edu/~grobner/mark-moodle/>

**Brief course description:** This course is designed to study the function and organization of the major endocrine glands, the synthesis and release of their hormone products, and the effects of those hormones on target cells with regard to normal growth, development and homeostasis. The cooperative relationship between the endocrine, nervous and immune systems will also be discussed from the standpoint of how that cooperation contributes to the maintenance of homeostasis.

Problems of endocrine dysfunction or pathophysiology also will be discussed.

**Course Learning Objectives:** Upon successful completion of the course students will be able to

1. Describe the physiological mechanisms of hormone secretions and their actions.
2. Describe the results of hyper and hypo secretions of the hormones as they relate to homeostasis.
3. Describe the role of hormones in regulating metabolism.
4. Compare endocrine control with nerve control of physiologic functions
5. Understand hormone based effects of stress on homeostatic systems.

**Grading:** Grades will be based on 400 total points to be assigned as listed in the table that follows.

Grade	Points
Exam #1	100
Exam #2	100
Exam #3	100
Critical review	25
Review ppt	25
Questions	50
Total points	400

**Exams:** Exams will be in-class, consisting of a variety of question types (e.g., multiple choice, matching, short answer, interpretative), and will be designed to assess your understanding of the material covered in lecture.

**Critical review:** The review will be a **critique of a journal article** relevant and recent to endocrinology (15 points). In this assignment, you shall be given a choice of recent journal articles and shall select one to evaluate. The critique will examine both the science and the presentation of data used by the author(s). The critique should be no more than two pages, double spaced in a 12 font, in length. You will also prepare a short (5-8 minute) PowerPoint presentation (10 points) of your review to be presented in class.

**Criteria for Critiques:** Please attach a photocopy of journal article and staple it to your critique. The following criteria will be used as the basis for evaluating professional education journal critiques and critiques from any of your professional readings

1. All work must be electronically submitted, double-spaced, clearly organized, and proofed.
2. The critique is worth 25 points (writing mechanics count 20% of the grade).
3. Use a narrative format/2 page max.: Provide the following information and address the following five criteria numbered below:
  1. Full CBE format (Council of Biological Editors) Citation at top of page.
  2. Provide a brief overview of the article; its purpose, focus and audience (don't just copy the abstract).
  3. Identify the hypothesis, is it clearly stated in the paper?
  4. Summarize key results (e.g., statistically significant comparisons)
  5. Summarize key conclusions – is support adequate? Are conclusions biologically significant as opposed to statistically significant?

**Questions:** The objective of the questions is to stimulate you to think about the class material as it is being presented by encouraging you to ask questions. At the end of each class period, you will turn in an index card with a question. There are 42 lectures, however, only 40 questions will be counted. Each question is worth 1 point each to be graded as follows;

Questions will be graded on the following scale:

- 0.0 points: No question.
- 0.2 point: Vapid, irrelevant, incomprehensible, confusing, asleep.
- 0.4 points: Vague, unfocused, ambiguous, superficial, frivolous.
- 0.6 points: Thoughtful, attentive, intelligent, observant, re-explanations.
- 1.0 points: Creative, perceptive, insightful, unusual, corrections.

**Rules for Questions:**

1. Only 1 question per class period.
2. Questions must be turned in as you leave class. I will not accept questions in my office.
3. You may submit a question that you asked during class period.
4. You may not submit a question that somebody else asked during class period.
5. Valid corrections of something I said count as 2 points.
6. Put your NAME on the back, question on the front.

**Make-up Exams:** If you will miss an exam due to a University-sanctioned event and have official documentation (e.g., from your advisor, coach or dean), it is your responsibility to inform me well before the exam is taken so that we can schedule a make-up exam. If you miss an exam due to family emergency or serious accident/illness, it is your responsibility to inform me as soon as possible and to provide official documentation (e.g., from your physician, advisor, or dean) stating that you could not take the exam due to this emergency or illness, in which case we will schedule a make-up exam. If you miss an exam for some other reason – or if you miss an exam for a potentially valid reason but do not communicate this to me ***promptly*** – you will receive 0 points for that exam.

**Do NOT try to arrange for a make-up exam by email! You MUST see me in person or talk to me directly by phone so that we can determine if you have a valid reason to miss an exam, and so that we can make prompt arrangements for you to take the make-up.**

**Academic Dishonesty and Misconduct:** Exams and the critique are indicators of individual performance and as such giving or receiving help during exams or plagiarizing another's work will be considered cheating. I will follow official University Policy regarding dishonesty and misconduct; penalties may range from a minimum of a 0 on the exam to a maximum of expulsion from California State University, Stanislaus.

**General Etiquette:** Please turn off cell phones and put them away once class has started. I will confiscate cell phones and return them at the end of lecture. Please do not carry on conversations with your neighbors once class has started. Such behavior is very distracting to me and to the other students around you and I consider it highly disrespectful.

**Recording Policy:** Audio or video recording of classes (tape and digital format) is not permitted under any circumstances. If you do not intend to comply with this policy, please discuss this with the instructor or take another class. An exception is made for students registered with Disability Resource Services, who are approved for this accommodation. In such exceptions, DRS students will be asked to sign a “Recording Agreement” which disallows them from sharing recordings with other individuals unless approved by the DRS program.

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*It is my responsibility to maintain a productive learning environment where every student has the equal opportunity to perform their best, and I take this responsibility very seriously. If at any time you have a problem with me, a member of the class, or the course in general, please do not hesitate to let me know so that I may have the opportunity to address the problem.  
Good luck for a great semester!*