

# PHYSIOLOGY BIOLOGY 5

## GRADING AND POLICIES FALL 2018

*Word from the Instructor: We welcome you to this course in Physiology. There is nothing more fascinating than how the body functions (and what happens when it doesn't function properly!). Book learning will be supported with hands-on laboratory learning, using animal and human specimens and our own blood. We hope you will discover that real experimentation is not a cookbook with perfect results every time. If and when the "cake" flops, we want you to use reasoning to theorize why and determine how to do it better next time. This approach, using real scientific thinking, will expose talents you may not have known existed. They ARE there and they will help you be successful in this rigorous endeavor. Welcome! Dr. Tanabe*

### SYLLABUS BIOLOGY 5 HUMAN BIOLOGY

**Instructor In Charge:** Dr. Jenine Tanabe

Office: 826 (next to 800 lecture hall) Phone: (530) 741-6907 email: [jtanabe@yccd.edu](mailto:jtanabe@yccd.edu)  
Office Hours: Monday 11am – 1 pm, Tuesday Noon – 12:30 and 5- 5:30 pm, Wednesday 11 am – noon,  
Thursday Noon – 12:30 and 5- 5:30 pm

Day Instructor: Dr. Jenine Tanabe

Lectures: TTh 1 pm, Science Bldg, Room 803

Laboratory: TTh 9-12 am or TTh 2-5 pm, Science Bldg, Room 814

Biology 5 Students should consider also taking **Biology 35 Problem Solving in Physiology** – 1 unit Fridays 11-11:50am. A companion course to BIOL 5; appropriate for those wishing additional review in Physiology. Lectures, discussions, and case histories are used to explore difficult concepts such as osmolality, nervous system function, acid-base balance, hormonal control, and immunity. Time will be allowed for consideration of topics chosen by students.

**Physiology web site:** <http://www.tanabehomepage.com> (Type address in URL)

**Course Content:** Biology 5 Human Physiology is a course in biological function intended for students pursuing careers in allied health fields, physical education, etc. It is a one semester, 4-unit course consisting of two lectures and two laboratory sessions per week. We will discover how cells, tissues, and organs organize into body systems and how those systems function and interrelate. Regulatory mechanisms will be emphasized.

**Conditions for Enrollment:** Prerequisite is C or better in Bio 1 or Bio 15.

#### Required Texts for all Bio 5 classes:

1. Lecture text: Fox, Human Physiology, 14<sup>th</sup> or 15<sup>th</sup> edition
2. Physiology lecture/lab supplement: Tanabe, latest edition, available at bookstore

#### Expected Number of Hours Required:

**Lecture** – 54 in class, 108 out of class      **Lab** – 162 hours

**Total Class Hours – 324 hours per semester**

**Grading Policy:** Biology 5 course is graded and not repeatable without permission. The course grade will be based upon the sum of the laboratory reports, midterm exams, laboratory experiments/projects, lecture questions/quizzes and the final exam.

1. Point Distribution = 800 points total (Subject to change)

- a. Four 60-minute exams, 100 points each. These exams will include topics covered in lecture and laboratory. The lowest midterm exam score will be dropped, for a total of 300 points.
- b. Group/Individual Experiments and Reports, 80 points total
- c. Laboratory reports, 180 points. Eighteen laboratory reports (@ 10 points each) will be requested randomly to check for completion and level of understanding. The laboratory reports should be your own best effort and non-original answers will receive no credit. ***Sharing or copying answers is considered cheating and all parties will receive zero credit.*** Lab reports are due at the beginning of the next lab session. Laboratory reports turned in after that time will receive a 3 point penalty (maximum value for a perfect lab report is therefore only 7 points). Late reports should be turned in within 1 week of due date.
- d. Lecture "Blue Book" quizzes. Eight 5-point quizzes, covering lecture material, for a total of 40 points.
- e. Two-hour final exam, 200 points. Approximately 1/2 of the final exam will cover the last unit studied prior to the end of the semester and 1/2 will be a cumulative review of the entire semester.

## 2. Grading Scale

- A = 90 - 100% of the total number of points possible
- B = 80 - 89%
- C = 70 - 79%
- D = 60 - 69%
- F = 59% and below

3. Exam Type: A variety of testing methods will be used: multiple choice, true-false, matching, short answer, math calculations, labeling diagrams, and essay questions.

4. Make up Exams/Laboratories: Exams may not be repeated or made up. All exams, laboratory projects and reports will count toward your grade. If you miss one midterm exam, it will be dropped as your lowest score. If you miss the final exam but have completed all other coursework you will receive an Incomplete as a course grade UPON NOTIFYING INSTRUCTOR (an Incomplete has to be cleared within the next 2 semesters). If you miss more than one exam, or have not completed all other coursework, you will not be eligible for an Incomplete and will receive a grade based on the work done.

**Laboratory Technique:** Because we will be dealing with human and animal specimens in lab, strict adherence to proper laboratory technique will be required.

- a. *All students must bring and wear a laboratory smock (an old shirt or jacket will do), that should be laundered when dirty. Students who do not have a laboratory smock will be denied admission to certain laboratories. Failure to follow proper laboratory technique may result in a grade penalty or ejection from the laboratory.*
- b. Precautions for biohazardous materials will be discussed in lab and will be strictly followed.
- c. Students are responsible for the cleanliness of the lab counters, sinks and floors.
- d. Eating, drinking, chewing gum or having water/drink containers out is not allowed in the laboratory.
- e. All students will be required to give written consent prior to participating in laboratory. If a student refuses participation in any part of the laboratory, an equivalent experience must be proposed and agreed to by the instructor.

**Attendance:** Due to the high demand for this course and the limited space, students that do not attend may be dropped from the rolls at the instructor's discretion. It is imperative that you attend both lecture and laboratory fully prepared with an up-to-date understanding of the course material. Please avoid activities that interfere with scheduled class times or preparation and study time. Dropping the course is the responsibility of the student, not the instructor. Failure to drop the course by specified deadlines may result in a Failing grade on your permanent record.

**Disabilities:** If you have specific disabilities and require accommodations, you must let me know at least 1 week before the anticipated need, such as a lab or an exam. You will need to provide documentation of your disability to the Disabled Students Programs and Services (DSPS) on campus. If you would like to be evaluated for a disability, that can be performed on campus at no charge to you.

## **Biology/Ecology Program Student Learning Objectives: Critical Thinking**

Analyze data/information in addressing and evaluating problems and issues in making decisions.

**Scientific Awareness**

Understand the purpose of scientific inquiry and the implications and applications of basic scientific principles.

**Biology 5 Physiology Student Learning Objectives:****Critical Thinking**

The Proper Evaluation of Scientific Information: Students will be able to analyze and evaluate scientific information and demonstrate the adequate understanding of that information.

**Scientific Awareness:**

Understand the purpose of scientific inquiry and the implications and applications of basic scientific principles.

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**CLASSROOM ETIQUETTE FOR COLLEGE STUDENTS**

(see also the Yuba College Student Conduct Policy on the Yuba College website)

**PREMISES** - It is a privilege, not a right, to attend an institution of higher learning and pursue goals of your own choosing.

College instructors have chosen to teach. We use our education, research and experience to enable undergraduate students to advance in life.

Students, not instructors or administrators, are solely responsible for their education and whether their goals are successfully met.

Certain behaviors produce success. Students that are prompt, courteous, honest, responsible, motivated, reliable, flexible, independent and enthusiastic do better.

**RULES OF CONDUCT** - Arrive five minutes early. If you arrive late to class, enter the room quietly, close the door gently, and take the nearest available seat. If you need to leave early, inform the instructor before class and position yourself for an unobtrusive exit.

**Cell phones must be put away (purse, book bag) and on silent.** Do not bring them out except in case of emergency. No texting in class. Take photographs only after asking instructor for permission.

Prepare in advance for laboratories and lectures. Do not ask the instructor for extra help if your preparation has been inadequate. Special considerations cannot be extended. Course policies and procedures, as outlined in the syllabus, will be applied equally to all students.

Actively participate. Use your time wisely, work efficiently, and learn from others. Be aware of changes that may affect you. Recognize that students must share the facilities and the instructor.

Unexpected situations, frustrations, and challenges will be encountered. You will be expected to deal with them in a mature and positive manner.

Be prudent when questioning the credibility, honesty, or judgment of another student or the instructor. Complaints will be carefully and completely evaluated. Groups are expected to work together, participating equally for equal credit.

Your continued participation after the drop deadline indicates your willingness to comply with the rules and regulations of this course.