

PHYSO 101 - HUMAN PHYSIOLOGY – SPRING 2007 –

[[Download Study Guide \(PDF\)](#)] [[Outline](#)] [[Home](#)]

Catalog description: Study of body functions at the molecular, cellular, and systemic level.

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Hours:

Monday	Tuesday	Wednesday	Thursday	Friday
11:45 AM - 2:15 PM		11:45 AM - 2:15 PM		

Textbooks Required:

Germann, W. J. and Stanfield, C. L. Principles of Human Physiology, 2/E, Benjamin Cummings, 2006. URL Valuepack: <http://www.aw-bc.com/catalog/academic/product/0,1144,0321429230,00.html> Includes InterActive Physiology® 9-System Suite CD-ROM and PhysioX on CD but does *not* include The Chemistry of Life, Biology Version, 2E CD

Thornton, R. M. The Chemistry of Life, Biology Version, 2/E CD ROM, Benjamin Cummings, 2003. URL <http://www.aw-bc.com/catalog/academic/product/0,4096,0805330631,00.html>

Ward, D. G. (2006) Human Physiology, (available at Laser Printing, 571 Tully Road, Modesto) or <http://www.dgward.com>
<http://virtual.yosemite.cc.ca.us/dward/>

Ward, D. G. (2006) Laboratory Exercises for Human Physiology, (available at Laser Printing, 571 Tully Road, Modesto) or <http://www.dgward.com>
<http://virtual.yosemite.cc.ca.us/dward/>

Course Objectives: Students in this class will:

1. Explain the chemistry of cells and the control of osmolarity, protein synthesis and cellular metabolism.
2. Explain the functioning of cells, cellular transport and the control of cells by chemical messengers.
3. Explain the functioning of neurons and their role in information processing.
4. Explain the functioning of the heart, blood vessels and blood; and the control of blood movement and hemostasis.
5. Explain the functioning of the kidney, lungs and digestive organs; and the control of fluid balance, respiration and digestion.
6. Explain the neural and endocrine control of metabolism, fluid balance, and reproduction.
7. Explain the functioning of sensory neurons and perception by the central nervous system.
8. Explain the functioning of muscle and the control of movement by the central nervous system.

Grading: Grades are assigned based on points earned in written exams, laboratory reports and in a final exam, as follows:

1. 750 points - 5 written exams (100 points scantron, 20 points fill-in, and 30 points short essays each exam)
2. 100 points - 10 typed one page summaries of homework / laboratory exercises (10 points each)
3. 50 points - 2 typed two page summaries of current research in physiology (based on 2 articles from peer reviewed journals, 25 points each))
4. 100 points - final exam (scantron)
5. Written exams cannot be made up. Students not taking the final exam will receive a grade of F for the course.
6. grade distribution
 - **A: 90 -100% 900 -1000 points**
 - **B: 80 - 89% 800 - 890**
 - **C: 70 - 79% 700 - 790**
 - **D: 60 - 69% 600 - 690**
 - **F: 00 - 59% 000 - 590**

The academic integrity policy for students at MJC:

"The grading of a student's work rests on the fundamental idea that an instructor is evaluating a student's own work, so cheating or plagiarism demonstrates a failure to complete this most basic requirement of any course. Thus a faculty member may administer academic consequences for violating the Academic Integrity Policy ranging from partial or no credit on an exam or assignment to an F in the course.

The instructor may also consider that a student's violation of academic integrity should be a consideration for disciplinary measures, such as suspension or removal from the course or the college."

Attendance: Students not attending two consecutive laboratories may be dropped from the course unless arrangements are made in advance. Avoid absences and leaving early.

Cell phones and pagers: Please turn off cell phones and pagers during class.

Suggestions for success:

1. Study a small amount of material at a time; learn that material thoroughly before moving on to something new.
2. Establish study groups in and out of the lab.
3. Answer all objective questions and practice essay questions
4. Answer all practice exam questions
5. Draw pictures and diagrams of physiological processes.
6. Take advantage of the laboratory time
7. Use the CDs