

CEDAR CREST COLLEGE
BIO 118, Human Anatomy and Physiology II
Lecture Syllabus, Summer 2009

Instructor: Mrs. Judith Malitsch
Office: Room 23 - Miller Building; **Office Hours:** Before and after class and as needed.
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Meeting Times and Places:

July 6 to August 13

Lectures: MTWR 5:30 – 7:30, SCI 136

Labs: MTWR 7:45 – 9:45, SCI 102*

- *On lab test days (& if necessary), lab will precede lecture.*

Final Exams: August 11 (lab), August 13 (lecture)

From The Provost's Office: "Your obligations for this course include attendance at the final exam. Do not make travel arrangements until the final exam schedule is published; if you must make plans early, you should schedule your travel after the last final exam day."

BIO 118 Human Anatomy and Physiology II

4 credits (lecture and lab)

This course is a continuation of the comprehensive, medical study of the human body. It also fulfills a *Natural Science* requirement for the Liberal Arts Curriculum and requirements/electives for clinical (nursing and nutrition) majors, pre-professionals and anyone else interested in an understanding of their own body. This course will continue to emphasize an integration of structure and function of the human body with clinical applications and physiological problem solving. The anatomy and physiology of the following systems will be covered: endocrine, cardiovascular, immune, lymphatic, respiratory, digestive including metabolism and nutrition, urinary including fluid and electrolyte balance and reproductive including growth and development. Studies will include homeostasis, clinical tests, cytology, histology, pathology and pathophysiology.

Prerequisites: BIO 117 or instructor's permission.

Our objectives in this course will be to:

1. Learn, understand, and appreciate the anatomical and physiological design of the human body.
2. Learn, understand, and appreciate the intimate relationship between structure and function.
3. Learn, understand and appreciate the interrelationships of the body systems.
4. Learn, understand and appreciate the concept of homeostasis, how it is achieved and keeps us functioning as normally as possible. Without homeostasis, our bodies experience a pathological condition.
5. Remember that A&P is a 'cell idea'.

These objectives will be accomplished in the following chapters/lab exercises:

* **Textbook:** Chapters 16-29

* **Lab Book:** Exercises 27-44

Learning Outcomes/Assessment:

1. Students will demonstrate knowledge of anatomical and medical terminology.
Assessment: Four exams with objective questions and application essays, class discussion.
2. Students will develop their critical thinking skills by relating function to structure for every aspect of the human body and continue to ask the question, “*What is the purpose of the design*”?
Assessment: Four exams with objective questions and application essays, clinical applications.
3. Students will improve their scientific reasoning in the application of the scientific method to anatomical and physiological problems on the cellular level.
Assessment: Four exams with application essays, class discussion.
4. Students will develop metabolic, physiological pathways.
Assessment: Flowcharts, class participation and application essays.
5. Students will demonstrate competency in recognizing and outlining homeostatic relationships within/among the endocrine, cardiovascular, immune, respiratory, digestive, urinary, reproductive systems.
Assessment: Exam application essays, class participation.
6. Students will enhance their clinical knowledge of anatomy and physiology and personal health/wellness, especially of women’s health issues.
Assessment: Class discussion.
7. Students will become familiar with the most recent technological advances and pharmaceutical therapies for managing pathophysiological states.
Assessment: Four exams, videos.
8. Students will appreciate the normal anatomical and physiological design of the human body by studying disease states.
Assessment: Four exams, clinical videos with application questions.
9. Students will relate their course knowledge in direct application to their health careers, majors, lifestyles and personal choices involving health and wellness.
Assessment: Class discussion and journal articles.

General Course Outline:

1st Semester (BIO 117)

Introduction
The Human Body
Chemistry: Aspects of
Metabolism
The Cell
Tissues
The Integumentary System
The Skeletal System
The Muscular System
The Nervous System
Special Senses

2nd Semester (BIO 118)

Endocrine System
Cardiovascular System
Lymphatic System
Immune System
Respiratory System
Digestive System
Nutrition & Metabolism
Urinary System
Fluids & Electrolyte Balance
Reproduction
Development

Required Textbooks:

Marieb, E. and Hoehn, K. 2010. *Human Anatomy and Physiology*, 8th Ed.
Pearson Benjamin Cummings (Pearson Education Inc.)

Marieb, Elaine N., Mitchell, Susan J. 2009. *Human Anatomy and Physiology Laboratory Manual*, 8th Ed. Update (Main) Pearson Benjamin Cummings (Pearson Education, Inc.)

Rust, Thomas G., 1986. *A Guide to Anatomy and Physiology Lab*. 2nd Ed.
Southwest Educational Enterprises.

Yokochi, C., Rohen J.W., Weinreb E.L., 1989. *Photographic Anatomy of the Human Body*, 3rd Ed. IGAKU-SHOIN Medical Publishers, Inc., NY.

Medical Dictionary: *Optional*

POLICIES

Attendance Policy: You are expected to attend **lecture** regularly. Attendance will be recorded. Please make an effort to be on time for class. Excessive, disturbing tardiness violates the classroom protocol code. Due to the condensed time frame of a summer course, course withdrawal will be recommended for absences.

Laboratory attendance is **MANDATORY** by departmental policy (**10% current test grade reduction/absence; zero for missed practical tests**) Refer to the laboratory syllabus for specific policies and procedures.

Preparation for Class Policy:

Preview the text material before class. Use the power point slides to follow the lecture along with the many diagrams. Suggested items to have for maintaining organization are: (1) notebook, (2) folder for handouts, (3) colored pens/pencils and (4) highlighter. *Keep lecture notes/handouts separate from lab notes/handouts.*

Lecture will be more physiologically (less anatomically) oriented. You may be responsible for material not presented in its entirety in class; you will be informed of this information.

You are also responsible for the following information:

- Information covered in lecture
- Information brought out in discussions as noted
- Information in the text as indicated
- Information in assigned readings and handouts (journal articles)
- Content of audiovisuals both in class and *on assignment*
- Anything missed as a result of tardiness and absences.

Test Policies:

You must be present for all tests. Any adjustment/make-up due to an absence must fulfill 3 requirements:

1. Notification is **on or before** the day and time of the exam.
2. You have contacted the Dean of Students office for official absence notification.
3. Tests must be completed within 3 days of the absence otherwise you will earn a “0” grade.

Failure to comply with any of the above three requirements will result on a ‘0 for the missed test. Make-ups *may not* necessarily correspond to the regular test format and may also be scheduled during the last week of classes.

However, for the last test which is considered the ‘final exam’, any absence will result in an earned, automatic zero for the test.

IF YOU ARRIVE LATE FOR A TEST, YOU FORFEIT THAT TIME IN TAKING THE TEST.

Cell phones and any other technological devices and guests are not allowed during tests. Any infraction will result in a zero for the test. *Test Etiquette* applies on all tests. This means that you may not place any comments or requests on the tests. Any violation of *Test Etiquette* will be penalized.

Grading Policy: You will receive one grade for this course.

Your Grade = 50% Lecture + 50%Laboratory

- 1. Lecture Component: Your lecture grade is an average of the following:**
4 major lecture tests (not cumulative); Test #4 will occur during the final exam period
1 bonus point earned on each lecture test will be added to your final lecture grade as earned percentage points.
- 2. Laboratory Component: Your lab grade is an average of the following:**
3 non-cumulative lab practical exams as per laboratory instructions
- 3. Grading Scale: A-F (with +,-)***

A	93-100	C+	77-79
A-	90-92	C	73-76**
B+	87-89	C-	70-72
B	83-86	D+	67-69
B-	80-82	D	60-66
		F	Below 60

*Attendance and participation considered in borderline grades.

**A minimum of 73% is required for nursing, nutrition and the LAC. Only one course overall is allowed to be repeated in the nursing curriculum.

CCC Policies: The professors within the Department of Biological Sciences support the campus-wide policies as described in the *Student Handbook*.

I fully support the **Cedar Crest College Honor Code, Academic Standards of Integrity and the Classroom Protocol Code** as stated in the *Student Handbook*. Cheating will result in a zero for the tests. If necessary, violations should be brought to the attention of the instructor. Violations may result in a loss of bonus points, your removal from class and may be formally addressed by the following individuals: Dr. Carol Pulham (Provost), Dr. John Cigliano (Chair), Dr. Denise O’Neill (Acting Dean of Students), and Christine Nowik (Director of the Advising Center). There will be zero tolerance for disrespectful, disruptive behavior at any time. Security will be called in the event such behavior occurs.

Students with **documented** disabilities who may need academic accommodations should discuss these needs with their professors during the first week of class. Students with disabilities who wish to request accommodations should contact the advising center.

Miscellaneous Policies:

1. All students must have CCC email for course communication and it is your responsibility to check it regularly.
2. Promptness, respect and courtesy are expected in all aspects of the course.
3. Laboratory coats and closed-toe shoes are required in A&P laboratories. Food and beverages (including anything bottled) are not permitted in the laboratory. Please report all breakage to me.

Due to the hazards in lab and abiding by the classroom protocol code establishing a learning environment for all registered students, children are not permitted to be in the lab.

4. Please silence all cell phones during class unless there is an impending situation; remember- electronic devices are not allowed during tests.
It is highly recommended that students DO NOT sit close to each other during tests.
5. To insure greater security and safety for students at night who study in the Science Center:
 - A. Always carry your college ID.
 - B. Make an effort to come with a study partner.
 - C. Notify Campus Security ('O') for any help or assistance.
 - D. Use the "escort service" (Campus Security) if needed.

The SC Building hours are:

Monday thru Friday	7:00 AM -10:00 PM
Saturday and Sunday	Closed unless requested open

6. Survival Notes:

- DO NOT MISS CLASS. Assimilation of this material is a monumental task and requires structure, discipline, organization and attendance.
- Study/Review EVERY day. This course is a full-time job!
Organize and integrate the concepts, summarize, write out pathways and list collective ideas. How do all the pieces of information create the 'big picture'?
- Make the most of your weekends for studying.
- If you don't understand, ASK. When in doubt, ASK.

*Best Wishes for a successful summer's end in A&P!
- Mrs. Malitsch*

BIO 118: LECTURE – SUMMER 2009

JULY

<i>Sun</i>	<i>Mon</i>	<i>Tue</i>	<i>Wed</i>	<i>Thu</i>	<i>Fri</i>	<i>Sat</i>
			1	2	3	4
5	6 Ch: 16 Endocrine System	7 Ch: 16 Endocrine System	8 Ch: 16 Endocrine System	9 Ch 17: Blood Ch 19: ECF Review General Plan of Circulation	10	11
12	13 Ch 19 Circulation Pathways Ch 18: Heart Anatomy	14 Test #1 Ch 18: Heart Anatomy Ch 19: Cardiovascular Physiology	15 Ch: 19 Cardiovascular Physiology	16 Ch: 19 Cardiovascular Physiology	17	18
19	20 Ch: 20 Lymphatic System Ch: 21 Immune System	21 Test # 2 Ch : 21 Immune System	22 Ch: 21 Immune System Ch: 22 Respiratory System	23 Ch: 22 Respiratory System	24	25