

BI131L – Human Nutrition

Spring 2015

Syllabus

Instructor: Dr. Michael Weichhaus
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Email Address: michael.weichhaus@chaminade.edu
Office Hours: Tue: 15:00-17:00 and Thu: 09:00-12:00
Class Hours: T 10:00AM - 12:50PM Henry Hall, Room L3

Texts:

There is no text for this course. Consequently, handouts will be provided to you for each laboratory experiment.

Aims of the course: This laboratory course accompanies the Biology 131 lecture course. However, it is a DISTINCT course from the BI 131 lecture for which a separate grade will be assigned.

This course is designed to introduce students to a number of laboratory techniques in nutrition and food science.

At the end of the course you should be able to:

- Identify and describe the functions of the gastrointestinal tract of humans using the pig as a model.
- Identify and use specific biological equipment.
- Conduct a complete dietary assessment.
- Interpret food labels.
- Understand the criteria for designing a good experimental protocol.
- Understand the relationship between energy expenditure and caloric intake.
- Understand the techniques used in microbial staining and identification.
- Develop an appreciation of working collaboratively in groups.
- Learn the role of various enzymes in the body, and their relationship to the digestive system.

Attendance:

Attendance is MANDATORY for ALL laboratory experiments. Laboratory absences that are APPROVED by the instructor PRIOR to the lab are excused. A note from a doctor must be provided. Because of the nature of this course, it will be impossible to re-create several of the labs on an individual basis for make-ups. Therefore, it is EXTREMELY important that you try not to have any absences during this time. No one will pass this course with more than 2 unexcused absences. Per Chaminade policy, attendance will be taken, and the Registrar's Office notified of excessive absences.

Evaluation of Student Performance

1. Separate grades are given for lecture and laboratory. It is possible to receive different grades for lecture and laboratory.
2. There is no curve for exams or final scores. The scale used is given below.
3. The final examination is a two-hour comprehensive examination including topics from the beginning of the course.
4. Extra credit work is NOT available. Make-up labs will only be available at the discretion of the instructor.
5. Missed exams can only be made up for valid excuses (to be determined by the instructor). In cases of illness, a physician's note is necessary.
6. The lab grade will be determined in the following manner:

Lab reports	10 percent
Lab book	10 percent
Midterm Exam	40 percent
Final Exam	<u>40 percent</u>
	100 percent

Strict scale:	90% - 100% = A
	80% - 90% = B
	70% - 80% = C
	60% - 70% = D
	Below 60% = F

Class standing:

The instructor, prior to the withdrawal deadline, will notify students with grades of D or lower. Students receiving deficiency notices are required to arrange a conference with instructor.

Music Devices and Cellphones

Use of music devices and cell phones is prohibited during all Natural Science and Mathematics classes at Chaminade, unless specifically permitted by your instructor. Use of cellphones and music devices in laboratories is a safety issue. In addition, use of cellphones and music devices in any class is discourteous and may lead to suspicion of academic misconduct. Students who cannot comply with this rule will be asked to leave class and may be subject to laboratory safety violation fines. Please refer any questions to the Dean of Natural Sciences and Mathematics.

ADA Accommodations

Students with special needs who meet criteria for the Americans with Disabilities Act (ADA) provisions must provide written documentation of the need for accommodations from the CUH Counseling Center (Dr. June Yasuhara; phone 735 - 4845) by the end of week three of the class, in order for the instructor to plan accordingly. Failure to provide written documentation will prevent your instructor from making the necessary accommodations. Please refer any questions to the Dean of Students and review the procedures at http://www.chaminade.edu/student_life/sss/counseling_services.php.

Academic Honesty

We expect you to behave with integrity and hold both yourself and your peers to the highest standards of ethical behavior. Academic dishonesty encompasses, but is not limited to: (1) plagiarism (i.e., copying another individual's words or ideas without appropriately citing the source); (2) turning in assignments that somebody else has completed; (3) referring to notes or other written/electronic materials, collaborating with others, copying someone else's work, or providing answers to others in any fashion during an examination. Please note that knowledge of others' cheating and failure to report this can also be construed as complicitness in academic dishonesty. Should we have reason to suspect that academic dishonesty has occurred; we will conduct a thorough investigation or may refer the matter to the Dean of Students for investigation. Possible sanctions should you be found responsible for academic dishonesty could include a failing grade for the course, suspension or even expulsion from the University. Such consequences could negatively affect your candidacy for graduate/professional programs or for some jobs.

LAB OUTLINE: *Note that the Dates, Experiments, and Reports are subject to change based upon confirmation of field trips and arrival of ordered supplies.*

Date	Experiment
Tuesday, January 27 th	Lab Rules/Food Label Interpretation
Tuesday, February 3 rd	Microscopy: Histology of the gastrointestinal tract
Tuesday, February 10 th	Determination of carbohydrate and protein content
Tuesday, February 17 th	Lactase Enzyme Experiment
Tuesday, February 24 th	Osmosis Experiment
Tuesday, March 3 rd	Emulsion experiment
Tuesday, March 10 th	Midterm Exam 10:00 am – 12:00 pm
Tuesday, March 17 th	Vitamin solubility experiment
Spring Recess	
Tuesday, March 31 st	Physical Assessment
Tuesday, April 7 th	Calculation of Energy need
Tuesday, April 14 th	Food Frequency Questionnaire
Tuesday, April 21 st	TBD
Tuesday, April 28 th	Final Exam: 10:00am – 12 pm