Biology 100L
Human Biology Laboratory
David A. Krupp, Ph.D.

Course Description
Laboratory to accompany BIOL 100 (Human Biology). Emphasizes the application of the scientific method, basic laboratory methods and procedures in biology, and facts and principles of human anatomy and physiology.

Requirements Satisfied by This Course
Partially fulfills Windward Community College’s Liberal Arts degree Natural Science requirements as a biological science laboratory course.

Requirements Satisfied by This Course
May also satisfy general education core requirements for a natural science laboratory class at different campuses within the University of Hawai‘i system.

Requirements Satisfied by This Course
This class is designed for the non-science major.

Prerequisites
Prior or concurrent enrollment in BIOL 100 or equivalent preparation or consent of the instructor.
Course Contact Information

Instructor:
Dr. David Krupp, Ph.D.
Associate Professor of Marine and Biological Sciences
Department of Natural Sciences
Windward Community College
University of Hawai‘i

Office Location:
Hale ‘Imiloa 104
Windward Community College 45-720 Kea‘ahala Road Kane‘ohe, HI 96744

Course Contact Information

Office Telephone: 236-9121
FAX Number: 247-5362
E-Mail: krupp@hawaii.edu

Course Contact Information

Instructor’s Webpage:
krupp.wcc.hawaii.edu/
Course Webpage:
krupp.wcc.hawaii.edu/BIOL100L
WebCT URL:
webct.hawaii.edu

Course Goals

By the end of this course the student should have an understanding of basic biological laboratory techniques, the scientific method of inquiry, and the collection, reduction, interpretation, and formal presentation of data.

Course Goals

By the end of this course the student should be able to integrate textbook and lecture information from BIOL 100 with systematic observations of human anatomy and physiology in the laboratory.
Course Objectives
The student will demonstrate the acquisition of basic biological science laboratory skills and knowledge relevant to human biology. These skills and knowledge include the following areas:

Course Objectives
• Collect, reduce, interpret, and present biological data;
• Use of some of the standard tools of the biological scientist, such as microscopes, scales, spectrophotometers, computers, and other analytical tools;

Course Objectives
• Describe the scientific method of inquiry, provide examples of its use, and demonstrate this method through written reports and summaries of class laboratory activities;

Course Objectives
• Knowledge of the procedures and theoretical foundations needed to study human biology, such as dissection, separation of biological compounds, microscopic examination of cells and tissues,

Course Objectives
• Basic knowledge of anatomy (structure) and physiology (function) of the fetal pig (using preserved specimens) and human body (using models and figures), including basic tissues types, organs, and organ systems.
Modes of Instruction

• Active participation in laboratory activities (at home and UH Learning Centers);
• Televised presentations and demonstrations;
• Multimedia presentations, including computer-assisted and Internet-assisted (e.g., WebCT) activities;
• Dissection of preserved specimens and examination of models;
• Computer-assisted simulations and data collection activities;
• Recording and interpreting results from laboratory activities;
• Written reports and/or summaries of laboratory activities;
• Nutrition monitoring and reporting; and
• Laboratory examinations.

Taking Examinations

• The midterm and final exams will test students on their comprehension of concepts presented in lab and ability to recognize microanatomical and anatomical features of the human body and fetal pig.

• These “closed-book” exams will be administered via WebCT at UH Learning Centers under proctored conditions.

• The final exam will NOT be a comprehensive exam.

Submitting Assignments

May be submitted in any of the following formats:

Hardcopy Format
- Conventional U.S. Mail
- WCC Mailbox
- FAXed to WCC
- Delivered In Person
May be submitted in any of the following formats:
- Digital Format (via Email)
  - Microsoft Word Document (.DOC files)
  - Portable Document Format (.PDF files)

Generally due one week after first time airing of the lab activity.

Midterm Examination 100
Final Examination 100
Nutrition Assignment 50
Lab Reports 200
TOTAL 450

A 90+% of total possible points
B 80-89.9% of total possible points
C 65-79.9% of total possible points
D 55-64.9% of total possible points
F <55% of total possible points
I Incomplete

CR 65% or above in total possible points under CR/NC option
NC <65% of total possible points under CR/NC option
N <55% of total possible points; not issued except under special circumstances
W Official withdrawal from course

Fetal Pig Dissection Kit

Course Resources

- Fetal Pig Dissection Kit
Course Resources

Computer Simulation
CD-ROM & Text

Course Resources

BIOL 100L Homepage
BIOL 100L DE WebCT Site

Safety Issues