Lecture

Section 1:          WHI AUD     TR 01:00 – 02:15    de Belle

Laboratory / Tutorial

Section 1:          WHI 304     T 08:30 – 11:20    Serway
Section 2:          WHI 304     T 02:30 – 05:20    Dunkelberger
Section 3:          WHI 304     T 05:30 – 08:20    Dunkelberger
Section 4:          WHI 304     R 08:30 – 11:20    Serway
Section 5:          WHI 304     R 02:30 – 05:20    Xie
Section 6:          WHI 304     R 05:30 – 08:20    Xie

Instructor

Dr. J. S. de Belle   895-3271     debelle@ccmail.nevada.edu
Office Hours:       WHI 231A     W 10:30 – 11:30 or by appointment

Teaching Assistants

Brian Dunkelberger  895-1656     bsdunkel@unlv.nevada.edu
Office Hours:       WHI 204A     T 11:30 – 12:30 or by appointment
Christine Serway    895-4657     serwayc@unlv.nevada.edu
Office Hours:       WHI 204A     R 11:30 – 12:30 or by appointment
Zhen Xie            895-1529     zxie@unlv.edu
Office Hours:       WHI 254 / 258   W 12:30 – 01:30 or by appointment

Resources

Required:  An Introduction to Genetic Analysis, 8th Edition
           Griffiths, Wessler, Lewontin, Gelbart, Suzuki and Miller

           Solutions MegaManual for
           Introduction to Genetic Analysis, 8th Edition
           Fixsen, Johnson, Merriam and Young

           Genetics Laboratory Manual – Fall 2005
           de Belle (download/print from the Course Web Page)

Suggested:  Schaum’s Outlines: Genetics, 4th Edition,
            Stansfield

Web Page:    http://www.unlv.edu/faculty/debelle/biol300/
Course Description

General Genetics is an introductory course intended for Biology majors, dealing with the transmission, structure and function of genetic material. Topics are divided into four sections: inheritance, mapping, molecular genetics, and variation. Attendance to lectures and laboratories is compulsory. **Passing grades must be attained in both the lecture and laboratory components to complete the course successfully.** Lecture notes, assigned readings, answers to exams, tutorial assignments, grades and other relevant material will be available on the Genetics web page. Assigned readings for the course are also listed in the *Course Calendar*. Homework will not be assigned. However, it is strongly recommended that you work through problems that correspond with the lecture material on a regular basis. These can be found at the end of each chapter in the text. Further problems can be found in *Schaum’s Outlines: Genetics (4th ed)*. Tutorial sessions are designated for reviewing lecture material to help you prepare for exams. Assignments may be given at the discretion of your teaching assistant, and attendance is compulsory. 4 credits.

Important Dates

First Class: Tuesday, August 30th
First Laboratory: Tuesday, September 6th or Thursday, September 8th
Drop (no penalty): Friday, November 4th
Final Exam: Tuesday, December 13th

Course Objectives

Students completing this course successfully will be trained to a proficiency expected of Biology majors entering their senior year of study, providing an academic base for upper-level courses in Genetics, Cell Biology, Molecular Biology and Evolutionary Biology. This will include knowledge of the following subjects and skills:

- logic and problem solving
- classical genetics and the laws of heredity
- probability theory and statistical analyses in genetics
- sources and induction of genetic variation
- the physical basis of heredity
- linkage, recombination and gene mapping
- cytogenetics and chromosome mechanics
- genetic complementation and the nature of genes
- structure and function of nucleic acids, genes, chromosomes and genomes
- molecular genetics of variation
- formulating a hypothesis
- planning, conducting and analyzing the results of experiments
- presenting data and writing a laboratory report
Exams

There will be two midterm exams during regular lecture periods (see *Course Calendar*). A midterm exam may be taken as makeup exam only if arranged and approved by the instructor at least 1 week prior to the date of the exam. The format of makeup exams is at the discretion of the instructor. The final exam will be held in WHI AUD from 1:00 to 3:00 on Tuesday, December 13th during final exam week. No makeup exam will be given for the final exam.

Laboratory

Laboratory manuals are to be downloaded from the course web page (see above). You are expected to read the laboratory manual prior to each lab period. Completed lab reports may only be submitted after attending a lab period. Reports will not be accepted after the due date (see *Course Calendar*).

Grades

Final grades will be based on a standard percentage scale, but may be curved or otherwise adjusted at the discretion of the instructor.

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Instructor’s Responsibilities

1. to be prepared for each lecture;
2. to present the most important information in a clear and concise fashion;
3. to be available outside of the class to answer questions;
4. to reply to electronic mail promptly; and
5. to return homework and exams in a timely fashion.
Student’s Responsibilities

1. to be prepared for lectures, laboratory exercises and exams;
2. to seek assistance from the instructor or teaching assistants when appropriate;
3. to check electronic mail regularly;
4. to bring a pencil, pen, calculator and photo ID to all exams.

Cheating, Plagiarism, and Academic Dishonesty

“No form of academic dishonesty is acceptable. Academic dishonesty includes any act that violates the academic process of the university. These acts include, but are not limited to, cheating on an examination, stealing examination questions, substituting one person for another at an examination, violating the procedures of a national or state examination, falsifying data, destroying or tampering with or stealing a computer program or file, and plagiarizing (using as one’s own the ideas or writings of another)” (UNLV Undergraduate Catalogue, Fall 2002 – Spring 2004, pp. 56). Students who cheat will be expelled from the course, receive a grade of “F”, and receive additional disciplinary action as outlined in the University and Community College System of Nevada document, Rules and Disciplinary Procedures for Members of the University Community.

Disability

If you have a documented disability that requires assistance for this course, please contact the Disability Resource Center (Reynolds Student Services Complex 137, telephone 895-0866 or TDD 895-0652) to coordinate your assistance.

Religious Holidays

Students who plan to miss any of the required elements of this course because of a religious holiday must notify the instructor in writing by Tuesday, September 2nd (the last day of registration). In cases of such schedule conflicts, students will be permitted to write a makeup exam or hand in course material on the following day.