

SUMMER II - ABIO 330L – MICROBIOLOGY LAB – Section 002

INSTRUCTOR: Brian A. Nevius, SBDG Rm. 204, banevius@hotmail.com

LAB ASSISTANT: Maureen Holley

LAB LOCATION: SBDG 213, TTH 8:30AM-12:30PM

REQUIRED TEXT: *Microbiology Laboratory Manual*, Holley and Smith

OPTIONAL TEXT: *A Photographic Atlas for the Microbiology Laboratory*,
Loboffe and Pierce

ASSESSMENT OF STUDENT PERFORMANCE:

This lab counts as 25% of each student's grade in ABIO 330. Students will be assessed on their understanding of the subject matter and the ability to work using aseptic techniques. The following breakdown is based on a 25% scale:

(10%) Daily Quizzes: These will be given each day at the very beginning of the lab and will cover material from the previous lab. The format will be primarily short answer. Quizzes are worth 10 points each, with up to 3 points of extra credit on each quiz that may be earned. Make-up quizzes are available to anyone that shows up too late and misses the quiz. One is considered late when the quizzes have been taken up. Make-up quizzes are slightly more challenging, they are only worth 10 points, and do not contain any extra credit. Quizzes will NOT be made up during the lab, but they must be made up before the next scheduled lab meeting day. See me to schedule a make-up time.

(10%) Lab Final: The Lab Final will be given on the last day of lab meetings (**Thursday Aug. 3**). It will consist of 50 questions, multiple choice (BRING A SCANTRON), and will cover everything in the lab since day one. A review will be given on **Tuesday Aug. 1**.

(5%) Aseptic Techniques & Use of Equipment. This portion of the grade will be given based on the student's ability to work following aseptic, or sterile, techniques and carry out the assigned experiments on the unknown and stock cultures in the lab. The student's ability to use the equipment properly is also included in this portion of the grade.

STATEMENT FOR DISABLED STUDENTS: "If you have a learning or physical disability which might affect your performance in this lab, please contact the Office of Disabled Student Services. Once an evaluation has been made, appropriate accommodations will be made."

MICROBIOLOGY LAB SCHEDULE

DATE	DAY	LAB
7/6/06	Thursday	Introductions, Lab Safety, Ubiquitous Lab (Collect Unknown Samples), Bacteria Basics, & Microscopy
7/11/06	Tuesday	Microscopy Quiz , Ubiquitous Results (Isolate Unknowns), Streak/Spread Plates with <i>E. coli</i> , <i>B. subtilis</i> , & <i>S. marcescens</i>
7/13/06	Thursday	Streak/Spread Plate Quiz , Gram Stains/KOH Method on <i>E. coli</i> , <i>B. subtilis</i> , <i>S. marcescens</i> , & Unknown Isolate
7/18/06	Tuesday	Gram Stain/KOH Quiz , BiOLOG Unknowns
7/20/06	Thursday	BiOLOG Quiz , Get BiOLOG Results (Homework: Find information on Unknowns), Standard Growth Curve & Dilutions on <i>E. coli</i>
7/25/06	Tuesday	Standard Growth Curve/Dilutions Quiz , Normal Growth Curve on <i>E. coli</i>
7/27/06	Thursday	Normal Growth Curve Quiz , Antibiotic Resistance Lab, Dehydrogenase Assay
8/1/06	Tuesday	Antibiotics/Dehydrogenase Quiz , Antibiotic Test Results, Review for Lab Final
8/3/06	Thursday	Lab Final

Unknown Tests

Gram Stain

KOH Test

Normal Growth Curve

Standard Growth Curve

Dilution Series for Plate Counts

BIOLOG

INT Test

Antibiotic Test