

# COLLEGE OF CHEMISTRY COURSE GUIDE (../INDEX.HTML)

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## PH 162L - PUBLIC HEALTH MICROBIOLOGY LABORATORY (1 UNIT)

### COURSE OVERVIEW

#### SUMMARY

This laboratory course is designed to accompany PH162A (ph162a.html), Public Health microbiology. The primary emphasis in the laboratory will be on properties of microorganisms, particularly those that cause infectious disease in humans. Examples will be presented of laboratory applications of microbiology and immunology as they relate to the diagnosis and treatment of disease, and control of the environment to prevent transmission of infectious agents.

This course is offered in the fall only

#### PREREQUISITES

College-level courses in elementary biology and chemistry; PH 162A (ph162a.html) (may be taken concurrently)

#### TOPICS COVERED

- Use of the Light Microscope
- Bacteriology: gram staining, culturing, isolation
- Mycology
- Virology
- Parasitology

- Immunoassays
- Environmental Sampling
- Laboratory Diagnosis of Infectious Diseases
- Cases in Infectious Diseases

## **WORKLOAD**

### **COURSEWORK**

- Pre-lab before each lab
- 2 midterms and a cumulative final

### **TIME COMMITMENT**

2 hours of lab per week, 10-20 minutes each pre-lab

## **CHOOSING THE COURSE**

### **WHEN TO TAKE**

Take this class concurrently with PH162A. It is not very time-intensive, but the material does overlap with lecture so the two courses complement each other well.

### **WHAT NEXT?**

- MCB C112 - General Microbiology ([mcbc112.html](http://mcbc112.html))

## **ADDITIONAL COMMENTS AND TIPS**

This course is hard to get into during Phase 1 if you're not a public health major, and you may be automatically waitlisted until Phase 2. Be patient and try different sections that have more space!

You will need to purchase a lab manual from a local copy store for about \$20.

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