

**GEORGIA PERIMETER COLLEGE**  
**DIVISION OF SCIENCE**  
**COMMON COURSE OUTLINE**  
**Revision Date: October, 2000**

<b>COURSE ABBREVIATION</b>	BIOL 1612L
<b>COURSE HOURS</b>	1 Semester Hour
<b>COURSE TITLE</b>	Human Anatomy and Physiology Lab II
<b>COREQUISITE</b>	BIOL 1612

**COURSE DESCRIPTION**

This is a laboratory covering blood, and the cardiovascular, respiratory, digestive, urinary, endocrine and reproductive systems.

**EXPECTED EDUCATIONAL RESULTS**

As a consequence of completing this course, the student will be able to:

1. Identify and determine spatial relationships of anatomical structures being studied in BIOL 1612 through the use of practical examples provided by animal dissection, models and microscope slides, and explain the function of certain aspects of the cardiovascular, respiratory, endocrine, urinary, and reproductive systems. Video, laser disks and computer demonstrations may be used to reinforce this.
2. Perform physiological experiments, gather and interpret data, and draw conclusions based on those data.
3. Write a coherent description of the methods, results, and conclusions of the experiment and their findings.
4. Demonstrate laboratory skills and techniques to include - reading and following directions, performing experiments and recording data.

**GENERAL EDUCATIONAL OUTCOMES**

**I. OUTCOME: "The student should be able to communicate effectively through listening, reading, writing and speaking."**

**Skill**

- A. Listening:
- B. Reading:
- C. Writing:

**Method**

- instructions for lab work
- following written direction in lab book
- laboratory reports

**II. OUTCOME: "The student should be able to recognize and apply scientific inquiry in a variety of settings."**

Through laboratory experiments the student will demonstrate the ability to apply the scientific method. They will be able to form testable hypotheses, explain natural phenomena, interpret experiments, and make conclusions from data

## **COURSE CONTENT**

- I. Anatomy of the Endocrine System and/or Experiments on Hormonal Action
- II. Blood
- III. Anatomy of the heart
- IV. Conduction system of the heart - electrocardiography
- V. Anatomy of Blood vessels
- VI. Human Cardiovascular Physiology
- VII. Anatomy of the Respiratory System
- VIII. Respiratory System Physiology
- IX. Cardio-respiratory reflexes
- X. Anatomy of the Digestive System
- XI. Chemical Breakdown of Foodstuffs: Enzymatic Action
- XII. Anatomy of the Urinary System
- XIII. Simulated urinalysis
- XIV. Anatomy of the Reproductive System
- XV. Physiology of Reproduction: Gametogenesis, the menstrual cycle, and human sexual response.

## **ASSESSMENT OF EXPECTED EDUCATIONAL RESULTS**

### **A. COURSE GRADE**

1. Each instructor, according to the guidelines presented in the instructor's course syllabus, will determine student's grades. There will be at least two practical exams, histology drawings of tissues (at least 10% of lab grade), and a lab report (at least 15% of the total lab grade) based on any of the physiological exercises performed in class
2. Each student, through a laboratory report, will be expected to demonstrate skills in writing, and knowledge and application of the scientific method.

### **B. DEPARTMENTAL ASSESSMENT**

This course is part of the Nursing, Dental Hygiene, and Physical Education programs and will be addressed in their program assessments. Biol 1612L will be assessed by regular consultation between instructors and other members of the Anatomy and Physiology Committee and Nursing, Dental Hygiene, and Physical Education faculty.

### **C. USE OF THE ASSESSMENT FINDINGS**

Instructors will consult the assessment results and each other to determine which educational approaches are working well, and which could be improved. They will continue what works and explore improved approaches to instruction where that is needed.

**Effective Date:** October, 2000

**Approved Date:** October 2000

**REVIEW DATE:** April 2005