GEORGIA PERIMETER COLLEGE
DIVISION OF SCIENCE
COMMON COURSE OUTLINE
REVISION DATE: April 2004

COURSE ABBREVIATION
BIOL 1612L

COURSE HOURS
1 Semester Hour

COURSE TITLE
Human Anatomy and Physiology Lab II

COREQUISITE
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."

<table>
<thead>
<tr>
<th>Skill</th>
<th>Method</th>
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<tbody>
<tr>
<td>A. Listening</td>
<td>instructions for lab work</td>
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<tr>
<td>B. Reading</td>
<td>following written direction in lab book</td>
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<tr>
<td>C. Writing</td>
<td>laboratory reports</td>
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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 2004