

**RARITAN VALLEY COMMUNITY COLLEGE  
ACADEMIC COURSE OUTLINE**

**BIOL 120 – Human Biology**

**I. Basic Course Information**

A. Course Number and Title: BIOL 120 Human Biology

B. New or Modified Course: Modified

C. Date of Proposal: Semester: Fall Year: 2016

**D. Effective Term: Fall 2017**

E. Sponsoring Department: Science and Engineering

F. Semester Credit Hours: 4

G. Weekly Contact Hours: 5                      Lecture: 3  
   Laboratory: 2  
   Out of class student work per week: 7

H. Prerequisites/Corequisites: None

I. Laboratory Fees: Yes

J. Name and Telephone Number or E-Mail Address of Department Chair at time of approval: Sarah Imbriglio, Ext 8241, sarah.imbriglio@raritanval.edu

**II. Catalog Description**

This course is an introductory study of the human body and the scientific method as it applies to human health. Emphasis will be placed on the basic anatomy and physiology of the human systems and their interactions. The course is designed to give students a general understanding of their bodies in health and disease.

### **III. Statement of Course Need**

- A. Human Biology (BIOL-120) satisfies general education requirements and serves as a science elective for non-science, as well as, science majors.
- B. Human Biology (BIOL- 120) requires a lab to give students hands-on experience with the scientific method, microscopic examination of tissues, manipulation of anatomical models and animal dissections. The lab allows students to apply principles learned in the lecture portion of the course.
- C. This course generally transfers as a general education lab science course. For New Jersey schools go to the NJ Transfer website, [www.njtransfer.org](http://www.njtransfer.org). For all other colleges and universities go to their individual websites.

### **IV. Place of Course in College Curriculum**

- A. Free Elective
- B. This course serves as a General Education course in Science with Lab.
- C. This course serves as a program requirement for Health Information Technology-AAS, Human Services/Pre-Social Work-AS, Psychological Rehabilitation and Treatment-AS, Medical Assistant – Certificate, and Medical Coding (HITC) – Certificate. This course meets an option for the Human Services Certificate.
- D. To see course transferability: a) for New Jersey schools, go to the NJ Transfer website, [www.njtransfer.org](http://www.njtransfer.org); b) for all other colleges and universities, go to the individual websites.

### **V. Outline of Course Content**

- A. Introduction to Human Biology
  - 1. Science, & Society
  - 2. The Scientific Method
- B. The Chemistry of Living Things
- C. The Structure & Function of Cells
- D. From Cells to Organ Systems
- E. The Skeletal System
- F. The Muscular System
- G. Blood
- H. Heart & Blood Vessels
- I. The Immune System & Mechanisms of Defense
- J. The Respiratory System: Exchange of Gases
- K. The Nervous System: Integration and Control
- L. Sensory Mechanisms
- M. The Digestive System & Nutrition
- O. Reproductive Systems

## **VI. General Education and Course Learning Outcomes**

### **A. General Education Learning Outcomes:**

**At the completion of the course, students will be able to:**

1. Communicate and collaborate with others in a clear, logical manner regarding the structure and function of the human body (GE-NJ 1,4).
2. Use the scientific method to evaluate problems and generate conclusions. (GE-NJ 2, 3).

### **B. Course Learning Outcomes:**

**At the completion of the course, students will be able to:**

1. Identify important anatomical structures associated with the human body.
2. Demonstrate an understanding of the basic physiological mechanisms associated with the human body
3. Apply their knowledge to their own health and well-being.

### **C. Assessment Instruments**

- A. Laboratory examinations
- B. Lecture exams
- C. Final exam
- D. Oral presentation
- E. Formal lab reports

## **VII. Grade Determinants**

- A. Lecture examinations
- B. Laboratory examinations
- C. Laboratory quizzes
- D. Oral presentations
- E. Formal lab reports

Primary formats, modes, and methods for teaching and learning that may be used in the course:

- A. Lecture/discussion
- B. Small-group work
- C. Computer-assisted instruction
- D. Guest speakers
- E. Laboratory experiments
- F. Viewing of anatomical models
- G. Microscopic examination of tissues

H. Student oral presentation

### **VIII. Texts and Materials**

- A. Suggested textbook: Human Biology. Concepts and Current Issues by Michael Johnson (Pearson)
- B. Suggested laboratory manual: Laboratory Manual for Human Biology. Concepts and Current Issues by Michael Johnson (Pearson)
- C. Optional: Human Biology Study Guide (Pearson)
- D. Website: [www.masteringbiology.com](http://www.masteringbiology.com)

(Please Note: The course outline is intended only as a guide to course content and resources. Do not purchase textbooks based on this outline. The RVCC Bookstore is the sole resource for the most up-to-date information about textbooks.)

### **IX. Resources**

- A. Traditional laboratory resources
- B. Computers with internet access

### **X. Honors Options**

Not Applicable