

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: 2023

D. Effective Term: Spring 2024

E. Sponsoring Department: Science & Engineering

F. Semester Credit Hours: **4**

G. Weekly Contact Hours: **5**

Lecture: 3

Lab: **2**

Out of class student work per week: 7

H. ☐ Prerequisite (s): None

☐ Corequisite (s): None

☐ Prerequisite (s) and Corequisite (s): None

I. Additional Fees: None

J. Name and E-Mail Address of Department Chair and Divisional Dean at time of approval: **Marianne Baricevic**, marianne.baricevic@raritanval.edu, **Sarah Imbriglio**, sarah.imbriglio@raritanval.edu

II. Catalog Description

There are no prerequisites for this course.

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 diversity of the human body.

The course is designed to give students a general understanding of their bodies in health and disease.

III. Statement of Course Need

- A. This course satisfies general education requirements and serves as a lab science elective for non-science major students.
- B. This course requires a lab to give students a 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, depending on the transfer institution, as a lab science general education course.

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 meets a program requirement for the Medical Assistant Certificate. This course meets an option for the Human Services/Pre-Social Work-AS and Human Services Certificate.
- D. To see course transferability: a) for New Jersey schools, go to the NJ Transfer website, 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 Endocrine System
- N. Reproductive Systems
- O. The Digestive System
- P. The Urinary System

VI. A. Course Learning Outcomes:

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

1. Identify and describe the structure and function of important parts of the human body (GE-1).
2. Use the scientific method to evaluate problems and generate conclusions. (GE-3).
3. Demonstrate an understanding of the basic physiological mechanisms associated with the human body.
4. Apply knowledge of anatomy and physiology to their own health and well-being.

B. Assessment Instruments

1. exams
2. presentations
3. discussions
4. quizzes
5. class participation
6. response papers
7. assignments
8. lab activities
9. lab practicals

VII. Grade Determinants

- A. exams
- B. presentations
- C. discussions
- D. quizzes
- E. class participation
- F. response papers
- G. assignments
- H. lab activities
- I. lab practicals

Given the goals and outcomes described above, LIST the primary formats, modes, and methods for teaching and learning that may be used in the course:

- A. lecture
- B. laboratory
- C. student discussions

VIII. Texts and Materials

- A. suggested textbook: Open Educational Resource (OER) text. Textbook is based on OpenStax's Anatomy and Physiology book. OER is freely available on <https://openstax.org/books/anatomy-and-physiology/pages/1-introduction> Instructor might assign readings and/or videos as part of OER text.
- B. Human Biology BIOL120 (text only) (RVCC Custom-Certain Sections-Optional)
- C. Lab manual: OER lab manual (Certain sections)
BIO 120: Human Bio Lab Manual (CUSTOM) (Certain sections)
Lab kit (online sections)
Website: www.mylabandmastering.com (Optional)

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. Check One: ☐ Honors Course ☐ Honors Options ☒ N/A

Definition: According to the Honors Council, an Honors course is one that enriches and challenges students beyond a course's regular scope and curriculum. An Honors course will offer a sophisticated use of research, introduce intellectually stimulating readings and critical perspectives, promote a higher level of critical discussion and written work, and encourage independent study projects, at the option of the instructor.