Rowan College at GLOUCESTER COUNTY
SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS (STEM) DIVISION
1400 TANYARD ROAD, SEWELL, NJ 08080
856-468-5000

BIO 105: ANATOMY AND PHYSIOLOGY I
SYLLABUS
LECTURE/LAB HOURS/CREDITS: 3/3/4

CATALOG DESCRIPTION
Prerequisite: High school chemistry or CHM 107 – Introductory Chemistry or
CHM 111 – General Chemistry I
High school biology or BIO 101 – General Biology I, BIO 107 – Human Biology or
BIO 111 – Contemporary Concepts in Biology
RDG 099 – Introduction to College Reading III

This course presents a comprehensive study of the structure and function of the gross and microscopic organization of the human body. Emphasis is placed on the integumentary, skeletal, muscular and nervous systems. Laboratory experiences include computer-assisted instruction and experimental labs which reinforce contemporary scientific concepts.

TEXTBOOK AND COURSE MATERIALS
It is the **responsibility of the student** to confirm with the bookstore and/or their instructor the textbook, handbook and other materials required for their specific course and section.

Please see current textbook prices at rcgc.bncollege.com

EVALUATION AND ASSESSMENT

Grading Distribution

Individual instructors may include the following assessment(s): • Exams • Quizzes • Class Discussions • Written Assignments • Attendance and Participation	Grading to be determined by individual instructors

Grading Scale Example
The grading scale for each course and section will be determined by the instructor and distributed the first day of class.

ROWAN COLLEGE AT GLOUCESTER COUNTY CORE COMPETENCIES

(Based on the NJCC General Education Foundation - August 15, 2007; Revised 2011)

This comprehensive list reflects the *core* competencies that are essential for all RCGC graduates; however, each program varies regarding competencies required for a specific degree. Critical thinking is embedded in all courses, while teamwork and personal skills are embedded in many courses.

	RCGC Core Competencies
1	**Written and Oral Communication** Students will communicate effectively in both speech and writing.
2	**Quantitative Knowledge and Skills** Students will use appropriate mathematical and statistical concepts and operations to interpret data and to solve problems.
3	**Scientific Knowledge and Reasoning** Students will use the scientific method of inquiry, through the acquisition of scientific knowledge.
4	**Technological Competency** Students will use computer systems or other appropriate forms of technology to achieve educational and personal goals.
5	**Society and Human Behavior** Students will use social science theories and concepts to analyze human behavior and social and political institutions and to act as responsible citizens.
6	**Humanistic Perspective** Students will analyze works in the fields of art, history, music, or theater; literature; philosophy and/or religious studies; and/or will gain competence in the use of a foreign language
7	**Historical Perspective** Students will understand historical events and movements in World, Western, non-Western or American societies and assess their subsequent significance.
8	**Global and Cultural Awareness** Students will understand the importance of a global perspective and culturally diverse peoples.
9	**Ethical Reasoning and Action** Students will understand ethical issues and situations.
10	**Information Literacy** Students will address an information need by locating, evaluating, and effectively using information

BIO 105 CORE COMPETENCIES

This course focuses on one of RCGC's Core Competencies:

- Scientific Knowledge and Reasoning

STUDENT LEARNING OUTCOMES: BIO 105 – ANATOMY AND PHYSIOLOGY I

Successful completion of BIO 105 will help students:	**RCGC Core Competencies**	**Evaluation / Assessment** **(Additional means of evaluation may be included by individual instructors)**
1. Describe, paraphrase, and summarize college-level material accurately.	- Scientific Knowledge and Reasoning	- Exams - Laboratory exercises
2. Illustrate knowledge of laboratory equipment and competence in its use.	- Scientific Knowledge and Reasoning	- Exams - Laboratory exercises
3. Apply knowledge to solve new problems.	- Scientific Knowledge and Reasoning	- Exams - Laboratory exercises
4. Work collaboratively with others.	- Scientific Knowledge and Reasoning	- Laboratory exercises
5. Communicate using scientific terminology correctly.	- Scientific Knowledge and Reasoning	- Presentation rubric

BIO 105 TOPICAL OUTLINE

Lecture	Lab
Introduction to the Human Body	Introduction to Anatomy and Physiology
The Cell	Introduction to the Microscope and Cell Structures Cell Transport
Tissue	Histology
Integumentary System	Integumentary System Lab
Bone Tissue	
The Skeleton	Axial and Appendicular Skeletal Anatomy Lab
Joints	Bone Tissue, Muscle Tissue and Joints Lab
Muscles and Muscle Tissue	Skeletal Muscle Physiology Lab
The Muscular System	Muscle Anatomy Lab
Fundamentals of the Nervous System and Nervous Tissue	Nervous Physiology Lab
The Central Nervous System	Brain and Spinal Cord Lab
The Peripheral Nervous System	Peripheral Nervous System Lab

Affirmative Action Statement

The Board of Trustees is committed to providing an educational and workplace environment free from unlawful harassment and discrimination. All forms of employment and educational discrimination and harassment based upon race, creed, color, national origin, age, ancestry, nationality, marital or domestic partner or civil union status, sex, pregnancy, gender identity or expression, disability, liability for military service, affectional, or sexual orientation, atypical cellular or blood trait, genetic information (including refusal to submit to genetic testing) are prohibited and will not be tolerated.

For questions concerning discrimination contact Almarie J. Jones, Executive Director, Diversity and Equity, Affirmative Action/Title IX Officer at 856-415-2154 or *ajones@rcgc.edu*.

For disability issues, contact Dennis M. Cook, Director, Department of Special Services, ADAAA/504 Officer at 856-415-2265 or *dcook@rcgc.edu*.

Department of Special Services

The Department of Special Services, located in the Instructional Center, room 425A, welcomes students of all abilities. The staff members in Special Services are committed to providing support services and ensuring equal access to eligible students with documented disabilities as outlined by the Americans with Disabilities Act (ADA) and the Americans with Disabilities Act with Amendments Act (ADAAA).

To maximize the potential of eligible students who self-identify, the Special Services staff provides an array of support services which may include extra time for tests and quizzes, testing in a separate location, advisement, interpreters, scribes, tutors, assistive technology (such as magnification devices and audio amplification), touch screen computers, audio books and note-taking assistance.

As students embark on their academic journey, they are encouraged to meet with staff members to identify, develop and implement support services that are in accord with their individual academic needs. Students are also encouraged to make use of other college support services that are available to all RCGC students currently enrolled in credited academic courses, such as tutoring services and the college library, which offer online information research and other materials needed to complement their studies.

Students registered with the Department of Special Services and who plan to earn an associate degree, further their education and transfer to a four-year institution, or enter the workforce, are encouraged to choose a corresponding program of study (college major) as soon as possible. The Special Services staff assists enrolled students with additional support that focuses on advancing students through their selected programs of study towards a goal of graduating.

Students who request academic support from the Department of Special Services can be assured that confidentiality will always be maintained. Accommodations are provided to address the special needs of individuals with disabilities under Section 504 of the 1973 Rehabilitation Act and the Americans with Disabilities Act (ADA) of 1990 together with the ADA Amendments Act of 2008 (ADAAA). Under these acts, the office advocates a user-friendly campus for accessibility and a learning-friendly campus for academic success.

For more information or to schedule an appointment to meet Special Services staff, please call 856-415-2265 or visit ***RCGC.edu/SpecialServices***.

To Register with Special Services

Students must follow these steps:

- Complete and submit the Student Profile form. Access the Student Profile Form.
- Submit documentation detailing the student's disability. Support services will not be granted without documentation specifying the student's disability. Documentation should include the following information:

    a. Diagnosis with written evaluation of current disability;
    b. Date the student was diagnosed;
    c. Tests used to reach diagnosis;
    d. Credentials of the medical professional conducting evaluation; and
    e. How the disability affects daily activities and/or academic performance.

- By clicking on the following links, students can download the Special Education Records Release Form and/or Medical Release Form to present to their medical care professional.
- Contact the Special Services office to schedule a meeting with a staff member.

    1. Students should schedule a meeting after submitting the Student Profile Form, proper documentation and completing the College's placement test. (Click on Special Accommodations for Placement Testing to determine whether student should arrange his/her placement test through the Special Services office or the general Testing Center.

2. During the meeting, the student and staff member will discuss his or her disability and determine eligible accommodations.

Accommodations

Students who qualify for accommodations are encouraged to register with the Department of Special Services at RCGC before they begin their academic career at Rowan College. This allows students to take advantage of any special accommodations and auxiliary aids that they might need and be eligible to receive.

- **Special accommodations** include but are not limited to extended time on tests, private test rooms to complete tests with the assistance of a reader or scribe, as well as a distraction-free test room.
- **Auxiliary aids** include but are not limited to note takers, tape recorders, large display calculators, interactive calculators, desktop magnifiers, large-screen computer monitors, touch-screen computer monitors, touch-screen laptop computers and JAWS® software. More information about adaptive technology can be found on the technology link. Students are responsible for identifying which accommodations and auxiliary aids they require for academic support.

Confidentiality

Students who register with the Department of Special Services are assured that their information is kept confidential.

In addition, the student's transcript will not indicate that the he or she is registered with the Department of Special Services. The student's specific special need is not disclosed to the student's instructors. However, accommodation letters are sent to each of the student's professors if the student needs testing accommodations or accommodations in the classroom. It is the student's choice whether or not to disclose the specifics of his or her special need.