### HEALTH INFORMATION TECHNOLOGY

**Code:** HIT 117

**Title:** Pharmacology

**Division:** Health Science

**Course Description:** This course provides a framework of thinking for healthcare professionals, laying a foundation of knowledge about drug treatment. It focuses on a general understanding of the actions and reasons for use of various groups of pharmacologic agents. It discusses medications according to major drug classifications and body systems. It develops critical thinking through the use of relevant case studies and actual chart analysis.

**Prerequisite or Corequisite:** BIO 114

**Credits:** 3 cr.

**Required Materials (Check Bookstore for Latest Edition):**
Click on the bookstore for the supplies which you are attending each class.

[rcbc.edu/bookstore](http://rcbc.edu/bookstore)

**Course Learning Outcomes:**

Upon completion of this course, students will be able to:

- Describe the components of the drug cycle including absorption, distribution, metabolism and excretion
- Identify medications in commonly prescribed drug/pharmaceutical categories
- Describe the therapeutic action of commonly prescribed drugs within a given category
- Given the generic or proprietary name of prescribed drug, identify the diseases it is used to treat
- Given a specific disease, identify several generic and proprietary drugs used to treat the disease
- Correctly spell commonly prescribed generic and proprietary drugs for each medication category discussed
- Demonstrate research techniques for obtaining drug information from drug references and other sources
- Analyze healthcare records and correlate symptoms, diagnoses, and tests performed with drugs administered
GENERAL EDUCATION OUTCOMES IN THIS COURSE:

| Written and Oral Communication: Communication | * Students will logically and persuasively support their points of view or findings. |
| Technological Competency or Information Literacy: Technology | * Students will demonstrate competency in office productivity tools appropriate to continuing their education. |

CORE COURSE CONTENT:
- Introduction to Pharmacology and the History of Drugs, Drug Design, Testing, Manufacturing, and Marketing
- Drug Forms, Routes of Administration, and the Drug Cycle
- Using Drugs Therapeutically, The Prescription, Pharmacy, and Pharmacist
- Urinary Drugs, Gastrointestinal Drugs
- Musculoskeletal Drugs, Respiratory Drugs
- Cardiovascular Drugs, Hematologic Drugs
- Gynecologic and Obstetric Drugs
- Endocrine Drugs
- Neurological Drugs, Psychiatric Drugs
- Dermatologic Drugs, Ophthalmic Drugs, Ear, Nose, and Throat Drugs
- Analgesic Drugs
- Anti-infective Drugs
- Chemotherapy Drugs
- Anesthetic Drugs
- Emergency Drugs, Intravenous Fluids, and Blood Products

COURSE ACTIVITIES:

Course activities vary from course to course and instructor to instructor. Below is a listing of some of the activities students can anticipate in this course:

- **Writing assignments**: students will analyze current issues in the field using current articles from the popular press as well as library research including electronic resources databases.

- **Speaking assignments**: students will present research individually or in groups using current technology to support the presentation (e.g., PowerPoint presentation); students will participate in discussions and debates related to the topics in the lessons. Discussions may also focus on cross-cultural and legal-ethical dilemmas as they relate to the course content.

- **Simulation activities**: Trends and issues will analyzed for their ethical as well as social or legal significance. Students might role-play common situations for classmates to analyze. Current news articles may be used to generate discussion.
➢ **Case Studies:** Complex situations and scenarios will be analyzed in cooperative group settings or as homework assignments.

➢ **Lectures:** This format will include question and answer sessions to provide interactivity between students and instructor.

➢ **Speakers:** Representatives from various related fields may be invited to speak.

➢ **Videos:** Related topics will provide impetus for discussion.

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**EDUCATIONAL TECHNOLOGY:**

Rowan College at Burlington County advocates a technology enhanced teaching and learning environment. Advanced technological tools may be used in any course section to facilitate instruction. Many of our sections are web-enhanced, which means that some of your work will be submitted or completed online. Web enhancements may include online materials, grade books, testing and quizzes and assignment submission. Many students enjoy the flexibility and convenience that these online enhancements have provided, however if you have concerns about the technology involved, please speak to your instructor immediately.

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**STUDENT EVALUATIONS:**

The student will be evaluated on the degree to which student learning outcomes are achieved. A variety of methods may be used such as tests, quizzes, class participation, projects, homework assignments, presentations, etc.

See individual instructor’s course handouts for grading system and criteria (point value for each assessment component in course, e.g. tests, papers, presentations, attendance etc.), number of papers and examinations required in the course, and testing policy including make ups and/or retests.

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**GRADING STANDARD:**

A  Mastery of essential elements and related concepts, plus demonstrated excellence or originality.

B+ Mastery of essential elements and related concepts, showing higher level understanding.

B  Mastery of essential elements and related concepts.

C+ Above average knowledge of essential elements and related concepts.

C  Acceptable knowledge of essential elements and related concepts.

D  Minimal knowledge of related concepts.

F  Unsatisfactory progress. This grade may also be assigned in cases of academic misconduct, such as cheating or plagiarism, and/or excessive absences.
For other grades, see the current ROWAN COLLEGE AT BURLINGTON COUNTY catalog.

**COLLEGE POLICIES:**

The current college catalog and student handbook are important documents for understanding your rights and responsibilities as a student in the RCBC classroom. Please read your catalog and handbook as they supplement this syllabus, particularly for information regarding:

- Academic Integrity Code
- Student Conduct Code
- Student Grade Appeal Process

**OFFICE OF STUDENT SUPPORT AND DISABILITIES SERVICES:**

RCBC欢迎有学习和其它类型的残疾的学生进入大学的教育项目。残疾学生可以通过学生支持服务中心（OSS）获得合理便利和援助服务。为了获得便利，学生必须联系OSS, 自我认定有残疾，并提供相关证明文件和参与一个入学会面。如果证明文件支持其申请合理便利，OSS将为学生提供一份便利计划给到教授。联系学生支持服务中心的电话是609-894-9311, ext. 1208 或者访问网站：www.rcbc.edu/studentsupport

**ADDITIONAL SUPPORT/LABS:**

RCBC provides academic advising, student support personal counseling, transfer advising, and special accommodations for individuals with disabilities free to all students through the Division of Student Services. For more information about any of these services, visit the Laurel Hall on the Mt. Laurel Campus, or call (609) 894-9311 or (856) 222-9311, then dial the desired extension:
- Ext. 1557 Academic Advisement and Counseling
- Ext. 1803 Special Populations
- Ext. 2737 Transfer Center

Or visit the following websites:
- Academic Advising www.rcbc.edu/advising
- Student Support Counseling www.rcbc.edu/counseling
- Transfer Center www.rcbc.edu/transfer

RCBC offers a free tutoring for all currently enrolled students. For more information regarding The Tutoring Center call Extension 1495 at (609) 894-9311 or (856) 222-9311 or visit the Tutoring Center Website at www.rcbc.edu/tutoring