



Rowan College
at
BURLINGTON COUNTY

DENTAL HYGIENE

CODE: DHY 200

TITLE: Dental Pharmacology and Pain Control

DIVISION: Health Sciences

COURSE DESCRIPTION: This course introduces pharmacology and methods of pain control as it relates to the practice of dentistry. It focuses on adverse drug reactions, pharmacological effects, their usual indications and contraindications. It emphasizes the clinical application of topical and local anesthesia. It discusses systemic toxicity and local complications to prepare students for the prevention and management of emergencies that may develop during treatment as well as sedation methods and general anesthesia.

PREREQUISITE: BIO 114, BIO 115, BIO 155, BIO 156, ENG 101, DHY 140, DHY 151

COREQUISITE: DHY 222, PSY 101

CREDITS: 2 cr.

REQUIRED MATERIALS (CHECK BOOKSTORE FOR LATEST EDITION):

Click on the bookstore for the supplies which you are attending each class.

Rcbc.edu/bookstore

COURSE LEARNING OUTCOMES:

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

- Explain basic pharmacokinetics with regard to: absorption, distribution, metabolism and elimination and describe how pharmacokinetics and related factors affect a drug's ability to produce a therapeutic effect. [PLO 1]
- Recognize the generic and trade names of most commonly prescribed drugs, be able to classify them according to their pharmacologic class and principle therapeutic indications, and recognize them in a patient's medical history. [PLO 1, PLO 4]
- Compare the classes of drugs used in dental practice for treatment of infection and various oral conditions and compare the classes of drugs used in dental practice for local anesthesia and pain and anxiety management. [PLO 1]
- Investigate and critique herbal products to discern potential impacts on patients, positive and negative, including consideration of interactions with drugs used in dentistry. [PLO 3]

GENERAL EDUCATION OUTCOMES IN THIS COURSE:

Scientific Knowledge and Reasoning: Science	* Students will demonstrate critical thinking skills in the analysis of scientific data
Technological Competency or Information Literacy: Technology	* Students will demonstrate the skills required to find, evaluate, and apply information to solve a problem.
Ethical Reasoning and Action	* Students will analyze and evaluate the strengths and weaknesses of different perspectives on an ethical issue or a situation

CORE COURSE CONTENT:

- Introduction to Pharmacology Drug Action and Handling
- Autonomic Pharmacology Self-Study: Prescription Writing
- Cardiovascular Drugs Self-Study: Autocoids and Antihistamines
- Respiratory/GI Drugs Nonopioid Analgesics
- Opioid Analgesics Local Anesthetics Self-Study: General Anesthetics
- Anti-Infective Agents
- Antifungal/Antiviral Agents Anticonvulsants Self-Study: Emergency Drugs
- Antianxiety Agents Psychotherapeutic Agents Adrenocorticosteroids
- Other Hormones Antineoplastic Agents
- Adverse Reactions Drug Interactions

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.

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 on-line 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.

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.

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 welcomes students with disabilities into the college's educational programs. Access to accommodations and support services for students with learning and other disabilities is facilitated by staff in the Office of Student Support (OSS). In order to receive accommodations, a student must contact the OSS, self-identify as having a disability, provide appropriate documentation, and participate in an intake appointment. If the documentation supports the request for reasonable accommodations, the OSS will provide the student with an Accommodation Plan to give to instructors. Contact the Office of Student Support at 609-894-9311, ext. 1208 or visit the website at: www.rcbc.edu/studentssupport

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

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