# Three Rivers
COMMUNITY COLLEGE

COURSE SYLLABUS

Course Title: Principles of Pharmacology   **Course #:** MED* 250

Course Description: 3 credits (3 lecture hours)
This course provides an overview of current and commonly used practices, procedures, medications, and supplements. Topics include legal and ethical implications, terminology, and documentation, practices governing the use, dispensing, administration, and storage of pharmaceuticals. Medication preparation, dosage calculation, and administration skills are developed. Patient education regarding safe administration, side effects, and interactions is emphasized. Presentation is organized according to drug classification and body systems.
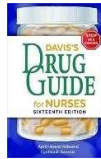
Author: Vallerand
Title: Davis's Drug Guide for Nurses (w/Bind-In Access)
Publisher: F. A. Davis Company
Edition: 16th
ISBN: 9780803669451
Required: REQUIRED

Author: Gauwitz
Title: GEN COMBO LL ADMINISTERING MEDICATIONS; CONNECT ACCESS CARD Publisher: McGraw-Hill Education
Edition: 9th
ISBN: 9781260692075
Required: REQUIRED

Pre-requisite/Co-requisite: Med 125 Medical Terminology, Med 170 Med Law & Ethics, Med 111 Medical Assisting Administration, Bio 115 Human Biology, English 101, Mat 137 Intermediate Algebra

Goals: The student will develop the working knowledge of pharmacology necessary for a career in an allied health profession. The student will understand mechanisms of drug actions, common drug interactions and side effects, and will become familiar with the more commonly prescribed drugs. The student will be able to perform basic mathematical calculations of drug dosages.

Outcomes: Upon successful completion of this course, the student will be able to:

- Demonstrate telephone technique for collecting necessary information for refill requests.
- Identify the classifications of medications, including desired effects, side effects and adverse reactions.
- Explain the DEA and FDA regulations and state laws, involving medications ,that govern medical assistants and allied health workers.
- Identify measurement systems used on medication labels, physicians orders, and prescriptions.
- Demonstrate the use of the Physician's Desk Reference and a nursing drug guide
- Identify both abbreviations and symbols used in calculating medication dosages.
- Demonstrate knowledge of basic math in calculating the proper medication dosage ordered.
- Verify order and dosage prior to administration.
- Prepare proper dosage and administer oral medication, optic medication, otic medication.
- Select proper sites for injection by subcutaneous, intramuscular and intradermal injections.
- Maintain medication and immunization records
- Identify drug and classification from reading labels and explain the relationship between anatomy and physiology and medication.
- Prepare drug cards for the more commonly prescribed medications including implications, effects, and patient/client education for medication.

Chapters Covered:

- Chapter 1. Orientation to Medications
- Chapter 2. Principles of Drug Action
- Chapter 3. Measurement and Dosage Calculations
- Chapter 4. Administering Parenteral Medications
- Chapter 5. Medication Therapy
- Chapter 6. Vitamins, Minerals, and Herbs
- Chapter 7. Antibiotics, Antifungals, and Antivirals
- Chapter 8. Drugs for the Eye and Ear
- Chapter 9. Drugs for the Skin
- Chapter 10. Drugs for the Cardiovascular System

- Chapter 11. Drugs for the Respiratory System
- Chapter 12. Drugs for the Gastrointestinal System
- Chapter 13. Drugs for the Urinary System and Fluid Balance
- Chapter 14. Drugs for the Reproductive System
- Chapter 15. Drugs for the Endocrine System
- Chapter 16. Drugs for the Musculoskeletal System
- Chapter 17. Drugs for the Nervous and Sensory Systems
- Chapter 18. Psychotropic Drugs
- Chapter 19. Antineoplastic Drugs
- Chapter 20. Drugs for the Pediatric Patient
- Chapter 21. Drugs for the Older Adult Patient

Evaluation:

This course is a core course for Medical Assisting majors. For <u>Medical Assisting students</u>, in *Failure to achieve a final grade of 73 (C) or better and/or failure to pass the competency skills identified within this course will result in the student being required to repeat the course.*

Grade	Points	Explanation	Grade	Points	Explanation
A (93-100)	4.0	Excellent	**C (73-76)**	2.0	Satisfactory
A- (90-92)	3.7	Excellent	**C- (70-72)**	1.7	Below Average
B+ (87-89)	3.3	Good	**D+ (67-69)**	1.3	Poor
B (83-86)	3.0	Good	**D (63-66)**	1.0	Poor
B- (80-82)	2.7	Good	**D- (60-62)**	0.7	Poor
C+ (77-79)	2.3	Satisfactory	**F (below 60)**	0.0	Fail

Grading Policy:

The assessment and grading of student performance in this course is based on the following activities.

Tests/Quizzes	**30%**
Project	**15%**
Homework Assignments	**20%**
Class Participation/Attendance	**10%**
Midterm/<u>Final Examination</u>	**25%**
Total	100%

Coursework Expectations:
Below are descriptions of the methods of assessment. Additional instructions and rubrics with be provided by your instructor and listed in Blackboard.

This is an intense course requiring a significant commitment on behalf of the student. In order to do well, there is an expectation that students will spend a significant time outside of the class dedicated to studying the material and working on homework assignments and/or projects. **You should plan for a MINIMUM of 9 hours outside class per week** completing your assignments not including preparation for class.

 Course Policies:

1. All assignments and the final exam <u>must</u> be completed. Your participation in the classroom projects is vital to the learning process and attendance is a key ingredient of your success in the workplace. Students are required to bring their student workbook/clinical skills competency book with them to EVERY class. Each student must conduct themselves in a manner reflecting the professionalism of a medical assistant and come to the first lab dressed appropriately.

 Excused absences are:
   * You or your child is sick as **documented by a doctor's note**.
   * A death in the family that is **documented by a clergy member, funeral home, or death certificate**.
   * A graduation in your immediate family (mother, father, son, daughter, brother, sister, husband, and/or wife) that is **documented with a graduation program or letter from the school**.
   * You have a court date that cannot be changed **and you provide a copy of the summons**. Extenuating circumstances at the discretion of the instructor.

 Tutoring and Academic Success Center (TASC) C117   **www.trcc.commnet.edu/learning-resources/tutoring-tasc**

TASC provides free academic support to TRCC students primarily through face-to-face tutoring. Additionally, handouts, books, and other academic resources are available for loan. Visit TASC's website for information about hours and online workshops.

Tutoring Center

The Tutoring Center provides free one-to-one and group tutoring for most courses and is available by appointment or walk-in; appointments are suggested and can be made in person or by phone. Contact us at **TASC@threerivers.edu.**

Writing Center

Writing reviews are available on a walk-in basis, by appointment, or by e-mail. Services are intended to help students learn to improve their writing, edit, and revise their own work successfully. Send questions or paper submissions to: **TRWritingCenter@threerivers.edu**.

Online tutoring is also available! Ask TASC consists of two components: the Ask TASC discussion board and a link to the Writing Center's e-mail instructions. All currently-enrolled students can access "Ask TASC" by logging into "Blackboard" and selecting "Ask TASC" from their course list.

Library Services C119
Please refer to the following link:
www.threerivers.edu/Div_IT/Library/Library.shtml

Monday - Thursday, 8:30 am – 8:00 pm; Friday, 8:30 am – 3:00 pm The Donald R. Welter Library is committed to supporting the research and information needs of faculty, staff and students and providing quality library services and resources for the diverse community of TRCC.

Counseling Services / Student Support Services

 Please refer to the following link:
www.threerivers.edu/student-life/support-services/disability-servicesaccommodations/

Academic Integrity
The effective operation of any organization is dependent on the honesty and goodwill of its members. In an organization devoted to the pursuit of knowledge, acting with integrity is essential to effective teaching and learning. Furthermore, academic dishonesty erodes the legitimacy of every degree awarded by the College. To emphasize the importance of academic integrity, Three Rivers Community College adheres to the Student Code of Conduct and Discipline Policy, as provided by the Connecticut State Colleges and Universities (CSCU) - Board of Regents for Higher Education. Since collaboration is central to the 54 learning community, Three Rivers wishes to emphasize that this policy is not intended to discourage collaboration when appropriate, approved, and disclosed.
www.trcc.commnet.edu/wpcontent/uploads/2017/06/trccstudenthandbook.pdf

Important Dates www.threerivers.edu/admissions/important-dates-contacts/

Book Store www.trcc.commnet.edu/learning-resources/bookstore/