

VERNON COLLEGE
SYLLABUS

DIVISION: Allied Health & Human Services

DATE: 2021-2022

COURSE NUMBER AND TITLE: MDCA 1348 Pharmacology and Administration of Medications

CREDIT HRS: 3

HRS/WK LEC: 3

HRS/WK LAB: 1

LEC/LAB COMB: 4

I. VERNON COLLEGE GENERAL EDUCATION PHILOSOPHY STATEMENT

General education at Vernon College reflects the institution's deep conviction that successful, satisfying lives require a wide range of skills and knowledge. Through the Texas Core Curriculum and through support and reinforcement in all non-core courses, students will gain a foundation of knowledge of human cultures and the physical and natural world, develop principles of personal and social responsibility for living in a diverse world, and advance intellectual and practical skills that are essential for all learning.

CORE OBJECTIVES (GENERAL EDUCATION OUTCOMES)

- Critical Thinking Skills – to include creative thinking, innovation, inquiry and analysis, evaluation and synthesis of information
- Communication Skills – to include effective development, interpretation, and expression of ideas through written, oral, and visual communication
- Empirical and Quantitative Skills – to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
- Teamwork - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal
- Personal Responsibility – to include the ability to connect choices, actions and consequences to ethical decision making
- Social Responsibility – to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

II. CATALOG DESCRIPTION:

Instruction in concepts and application of pharmacological principles. Focuses on drug classifications, principles and procedures of medication administration, mathematical systems and conversions, calculation of drug problems, and medico-legal responsibilities of the medical assistant. Lab Fee: \$24.00; Program Fee: \$40.00

III. REQUIRED BACKGROUND:

IV. STUDENT E-MAIL:

All students should activate and regularly check their Vernon College issued student email account. Student emails are an official form of communication between Vernon College and students and will be used by various components of the college including the Office of Financial Aid, Admissions & records, the Business Office, Student Services, and Instructional Services.

Additionally, an active VC student email account is required for students to access online courses and supplemental instruction provided on the College's Learning Management System – *Canvas*.

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V. TEXTS, OTHER REFERENCE MATERIALS:

Medical Assisting Simplified Pharmacology, 2009.

VI. METHODS OF INSTRUCTION:

This course will be taught via lecture.

Students desiring auxiliary aids and services for this course should make their requests to the instructor and the PASS Department Director/Office for Students with Disabilities Coordinator

VII. COURSE CONTENT:

1. Drug Fundamentals
2. Math of Medications and Calculating Dosages
3. The Role of the Medical Assistant
4. How Drugs Work
5. Commonly Prescribed Drugs
6. Supplements and Immunizations: Ways to Protect Our Health
7. Abuse and Misuse of Substances
8. Administration of Medications

VIII. COURSE OUTCOMES:

Upon completion of this course, the students should be able to:

1. Prepare, administer, and document oral and percutaneous medications
2. Calculate drug dosages for administration by standard routes for adult and pediatric patients
3. Demonstrate inventory handling and storage
4. Adhere to governmental health care guidelines and biohazard protocols

IX. ASSESSMENT:

1. Examinations will be administered after each predetermined unit is completed.
2. Evaluation of all work handed in by student as a requirement.
3. Final exam