

Central Maine Community College in partnership with ed2go offers online education courses designed to provide the workforce with sustainable skills necessary to enter a new field or advance your current career. Our Online Advanced Career Training courses provide the most effective online training. Students are assigned a student advisor who will assist the students with setting an achievable study/completion schedule.

To earn a certificate in **Pharmacy Technician (Exam Voucher Included)**, students must complete **400** hours of training with a passing grade.

**Course Information:**

Course Title: Pharmacy Technicia (Exam Voucher Included)  
Course Code: GES117  
Course Duration: 6 months/400 Course Hours

**Requirements and Materials:**

This program is compatible with the Windows XP and later operating systems and IE 7 and later browsers and can be taken on either a Mac or a PC; however, most medical offices currently use PCs. A high-speed Internet connection is recommended. Adobe Flash Player and Adobe Acrobat Reader are required for this program.

ed2go will provide the required materials for this program. They include:

- The Pharmacy Technician: A Comprehensive Approach
- Pharmaceutical Calculations for Pharmacy Technicians
- Law and Ethics ISBN: 9781285082066
- Fundamental Pharmacology for Pharmacy Technicians
- Fundamental Pharmacology for Pharmacy Technicians Workbook
- Pharmacy Lab Kit and Manual (e-Science)
- Virtual Medication Safety for Technicians – Online
- Virtual Inventory Management for Technicians - Online
- Virtual Pharmacy Externship for Technicians – Online
- Externship packet and lab coat provided upon acceptance into the Externship Program

After successfully completing your program, you'll also receive access to the Pharmacy Technician Certification Board (PTCB) practice tests, to help you study for your certification exam.

**Outline:**

- I. **Orientation to Pharmacy**
  - a. History
  - b. Foundations and Roles

- c. Reference Materials
- d. Terminology Words and Abbreviations
- e. Terminology – Body Systems
- f. Community Pharmacy
- g. Hospital Pharmacy
- h. Advanced Pharmacy Environments
- II. Pharmacy Law and Ethics**
  - a. Introduction to Law
  - b. Liability
  - c. Ethics
  - d. Federal Regulations
  - e. Controlled Substances
  - f. HIPAA
  - g. Safety Laws
  - h. State Laws
  - i. State Boards of Pharmacy
- III. Pharmaceutical Calculations**
  - a. Number Systems
  - b. Math Skills Review
  - c. Dosage Calculations
  - d. Percentage of Error
  - e. Business Math
  - f. Dilutions and Concentrations
  - g. Oral Medications and Reconstitutions
  - h. Parenteral Doses
  - i. Intravenous Flow Rates
  - j. Pediatric Doses
- IV. Pharmacology I: Basics and Specific Populations**
  - a. Legislation and Regulation
  - b. Sources and Forms
  - c. Biopharmaceutics
  - d. Pregnancy and Lactation
  - e. Pediatric Patients
  - f. Geriatric Patients
  - g. Misused/Abused Drugs
- V. Pharmacology II: Body Systems – Neurological**
  - a. Antidepressants/Antipsychotics
  - b. Antianxiety/Hypnotics
  - c. Autonomic Nervous System
  - d. Parkinson's/Alzheimer's
  - e. Seizures
  - f. Anesthetics
- VI. Pharmacology III – Body Systems – Muscles, Heart, Lungs**
  - a. Musculoskeletal
  - b. Cardiovascular

- c. Hypertensives/Cholesterol
  - d. Diuretics
  - e. Anticoagulants
  - f. Respiratory/Allergies
  - g. Gastrointestinal
- VII. Pharmacology IV: Multi-body Systems**
- a. Hormones – Endocrine
  - b. Hormones – Reproductive
  - c. Vitamins, Minerals, and Nutritional
  - d. Antineoplastic
  - e. Analgesics
  - f. Anti-Infective/Antibacterial
  - g. Antivirals/Antifungals
- VIII. Communication Skills and Billing**
- a. Computers
  - b. Communications
  - c. Financial Management
  - d. Insurance
  - e. Billing and Collections
  - f. Inventory Control
- IX. Lab Practice I – Retail**
- X. Lab Practice II – Hospital**
- XI. Final Comprehensive Exam**