



# Wayne County Community College District

## COURSE SYLLABUS

**PHT 115**

**Pharmaceutical Interpretations and Calculations**

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**CREDIT HOURS:** 5.00

**CONTACT HOURS:** 80.00

**COURSE DESCRIPTION:**

This course applies basic mathematics in the calculations required for determination of proper dosages, conversion operations, as well as in preparation of parenteral solutions for injection (IVs, chemotherapy, etc.). Detailed instruction in the techniques used in dosage preparation (aseptic technique, safe handling of chemotherapy, etc.) exploration of computer systems used in the modern pharmacy for processing orders will be provided. This course will provide students the skills needed to correctly fill medication orders. Students will learn to interpret medication orders, understand manufacturers' labels, calculate drug dosages, and translate prescriptions. Laboratory included.

**PREREQUISITES:** PHT 100

**COREQUISITE:** *PHT 105*

**EXPECTED COMPETENCIES:**

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

- Review of number systems, decimals and fractions.
- Units of measure used in pharmacy practice.
- Conversions of the metric, apothecary, avoirdupois, and household systems of measure.
- Convert Celsius and Fahrenheit temperatures.
- Enlarging and reducing formulas.
- Concentration, dilution and ratio strength calculations.
- Parenteral and admixture calculations.
- Chemotherapy calculations.
- Density and specific gravity.
- Pharmacy business math.
- Prescription and medication order interpretation.
- Manufacturers' label understanding.

**ASSESSMENT METHODS:**

Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

**GRADING SCALE:**

90%-100% = A



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80%-89.9%= B

70%-79.9%= C

60%-69.9%= D

<60% = E

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