Wayne County Community College District

COURSE SYLLABUS

PHT 130 Pharmaceutical Calc & Drug Prep

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 parental solutions for injection (IVs, chemotherapy, etc.). Detailed instruction in the techniques used in dosage preparation (aseptic technique, safe handling of chemotherapy, etc.) will be provided.

PREREQUISITES: PHT 105, PHT 110    COREQUISITE: PHT 120

EXPECTED COMPETENCIES:

• (Application) Accurately count or measure finished dosage forms as specified by the prescription/medication order. (ASHP 3.5)
• (Application) Accurately determine the correct amounts of ingredients for a compounded product. (ASHP 3.7)
• (Comprehension) Explain how state laws and regulations determine what activities associated with verifying the measurements, preparation, and/or packaging of medications produced by other technicians can be delegated by pharmacists to technicians. (ASHP 4.1)
• (Evaluation) Accurately assess the correctness of medications produced by other technicians including measurements, preparation technique, and packaging. (ASHP 4.2)
• (Comprehension) Explain how state laws and regulations determine what activities associated with the administration of immunizations can be delegated by pharmacists to technicians. (ASHP 6.1)
• (Complex Overt Response) Exercise skill in the administration of selected immunizations. (ASHP 6.2)
• (Application) Accurately identify the customer's/patient's method of payment for a prescription/medication order. (ASHP 8.1)
• (Analysis) Exercise skill in the use of electronic systems to input third party information and to verify third party coverage for a prescription/medication order. (ASHP 8.3)
• (Application) When needed, accurately verify third party coverage for a prescription/medication order by phone. (ASHP 8.4)
• (Application) When appropriate, use knowledge of 3rd party insurance billing procedures to identify the reason for a rejected claim and to convey that information accurately to the pharmacist. (ASHP 8.5)
• (Synthesis) Formulate an effective strategy that is sensitive to the concerns of the customer/patient for conveying third party payment coverage information and further action to be taken. (ASHP 8.6)
• (Application) Accurately complete third party claims forms. (ASHP 8.7)
• (Application) Accurately record the receipt of payment for pharmaceutical goods and services. (ASHP 8.8)
• (Complex Overt Response) Demonstrate skill in the operation of a cash register. (ASHP 8.9)
• (Application) Accurately make change. (ASHP 8.10)
• (Application) Accurately determine those items which are taxable. (ASHP 8.11)
• (Application) Determine payment due the health system for medication orders. (ASHP 8.12)
• (Analysis) Identify pharmaceuticals, durable medical equipment, devices, and supplies to be ordered (e.g., "want book"). (ASHP 10.6)
• (Comprehension) Explain how the practice setting is used to contribute to the development of new medication products. (ASHP 13.1)
• (Application) Follow the established protocol for recording the preparation of an investigational medication product. (ASHP 13.2)
• (Application) Follow the established protocol for storage of investigational medication products. (ASHP 13.3)
• (Application) Follow the established protocol to record the distribution of investigational medication products. (ASHP 13.4)
• (Comprehension) Explain the use and side effects of prescription medications, nonprescription medications, and alternative therapies (e.g., herbal products, dietary supplements, homeopathy, and lifestyle modification) commonly used to treat diseases affecting the cardiovascular system. (ASHP 34.1)
• (Comprehension) Explain the use and side effects of prescription medications, nonprescription medications, and alternative therapies (e.g., herbal products, dietary supplements, homeopathy, and lifestyle modification) commonly used to treat diseases affecting the respiratory system. (ASHP 34.2)
• (Comprehension) Explain the use and side effects of prescription medications, nonprescription medications, and alternative therapies (e.g., herbal products, dietary supplements, homeopathy, and lifestyle modification) commonly used to treat diseases affecting the gastrointestinal system. (ASHP 34.3)
• (Comprehension) Explain the use and side effects of prescription medications, nonprescription medications, and alternative therapies (e.g., herbal products, dietary supplements, homeopathy, lifestyle modification) commonly to treat diseases affecting the renal system. (ASHP 34.4)
• (Comprehension) Explain the use and side effects of prescription medications, nonprescription medications, and alternative therapies (e.g., herbal products, dietary supplements, homeopathy, and lifestyle modification) commonly used to treat diseases affecting the nervous system. (ASHP 34.5)
• (Comprehension) Explain the use and side effects of prescription medications, nonprescription medications, and alternative therapies (e.g., herbal products, dietary supplements, homeopathy, and lifestyle modification) commonly used to treat diseases affecting the endocrine system. (ASHP 34.6)
• (Comprehension) Explain the use and side effects of prescription medications, nonprescription medications, and alternative therapies (e.g., herbal products, dietary supplements, homeopathy, and lifestyle modification) commonly used to treat diseases affecting the reproductive systems. (ASHP 34.7)
• (Comprehension) Explain the use and side effects of prescription medications, nonprescription medications, and alternative therapies (e.g., herbal products, dietary supplements, homeopathy, and lifestyle modification) commonly used to treat diseases affecting the immune system. (ASHP 34.8)
• (Comprehension) Explain the use and side effects of prescription medications, nonprescription medications, and alternative therapies (e.g., herbal products, dietary supplements, homeopathy, lifestyle modification) commonly used to treat disorders of the eyes, ears, nose and throat. (ASHP 34.10)
• (Comprehension) Explain the use and side effects of prescription medications, nonprescription medications, and alternative therapies (e.g., herbal products, dietary supplements, homeopathy, lifestyle modification) commonly used to treat diseases affecting the dermatologic system. (ASHP 34.11)
• (Comprehension) Explain the use and side effects of prescription medications, nonprescription medications, and alternative therapies (e.g., herbal products, dietary supplements, homeopathy, lifestyle modification) commonly used to treat diseases affecting the dermatologic system. (ASHP 34.12)
• (Comprehension) Explain the use and side effects of prescription medications, nonprescription medications, and alternative therapies (e.g., herbal products, dietary supplements, homeopathy, lifestyle modification) commonly to treat diseases of the muscular system. (ASHP 34.13)
• (Application) Apply the principles of quality assurance to all technician activities. (ASHP 35.1)

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
80%-89.9% = B
70%-79.9% = C
60%-69.9% = D
<60% = E