

Nesbitt School of Pharmacy

Wilkes University

PHA 534

Introduction to Hospital Pharmacy Practice

Syllabus

Spring 2014

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Course Title: Introduction to Hospital Pharmacy Practice

Course Number: PHA 534

Course Credit: 2

Class Time/Location: Tuesdays 9:20 – 10:55 AM, SLC 105

Course Description:

This course is designed to introduce students to the practice of pharmacy within a health-system (e.g. hospital) setting. Students will be introduced to the history of, management of, clinical services within, and career options in a health-system pharmacy. Furthermore, students will complete various projects relevant to the practice of health-system pharmacy and visit a local health-system. Didactic and active learning techniques will be employed throughout the course.

Course Goals:

1. Increase a pharmacy student's awareness of career options, operating procedures, and clinical activities in Health-System Pharmacy.
2. Develop the student's knowledge, skills, and attitude toward becoming future leaders in Health-System Pharmacy.
3. Develop the student's knowledge, skills, and attitude to become a proficient practitioner in Health-System Pharmacy, capable of practicing in various settings within Health-System Pharmacy.

Prerequisites: P-2 standing or above, or by permission of the instructor

Learning Outcomes:

At the completion of this course, the student should be able to:

1. Discuss the history and structure of our current health-system.
2. Analyze the organization, roles, and responsibilities of the health-system pharmacy staff.
3. Explain the role of medication therapy in the care of the hospitalized patient.
4. Discuss the use of automation and technology in health-system medication delivery.
5. Evaluate clinical pharmacy services in health-care systems.
6. Perform pharmaceutical calculations in a hospital pharmacy setting.
7. Properly compound sterile products for intravenous administration.
8. Propose and justify a medication addition or deletion to a health-system formulary.
9. Evaluate a drug's utilization at an institution.
10. Evaluate and report medication errors.

Educational Outcomes:

Knowledge of Basic Science, Math, Economic, and Regulatory Principles

- 1.1.7. Demonstrate knowledge of pharmacoeconomics.

Evaluate the Prescription, Prepare, and Dispense Medication

- 1.2.1. Consider legal requirements, ethical principles, and relevant policies to assess drug orders and prescriptions.
- 1.2.3. Determine the appropriateness of drug doses, dosage forms, routes of administration, and frequencies of administration.
- 1.2.4. Perform calculations required to compound, dispense, and administer medications.
- 1.2.6. Use knowledge of sterile technique to prepare sterile dosage forms or delivery systems.

Manage Medication Information

- 1.3.2. Efficiently retrieve information and evaluate it for relevance and validity.
- 1.3.3. Synthesize and apply the information in context of the situation or question/need
- 1.3.4. Use the information gathered to formulate evidence-based answers
- 1.3.5. Effectively communicate medical information with appropriate written and/or verbal language.

Assess and Interpret Patient Information

- 1.5.3. Calculate and interpret population and individual pharmacokinetic and pharmacodynamic data.

Systems Management

- 2.1. Describe how the medication distribution system supports the safe and effective use of medication.
- 2.2. Explain how principles of pharmacoeconomics impact the medication distribution system.
- 2.3. Describe the role of professional staff and support personnel in medication distribution.
- 2.4. Describe the importance of policy and procedures to ensure safe and accurate medication use and general pharmacy operations including personnel, administrative, physical resources, information technology and/or informatics.
- 2.5. Use strategies to stay current with changing practices in pharmacy.
- 2.6. Recognize the importance of quality assurance and quality improvement to promote safe medication use and systems management.
- 2.7. Analyze the root cause of medication errors.
- 2.8. Implement or improve practice to reduce medication errors.
- 2.9. Explain how technology can be utilized to reduce medication errors.
- 2.10. Use appropriate systems (institutional and government) to report adverse drug reaction and medication errors.

Course Evaluation:

IPE Nursing Experience	10%
Quizzes/Homework	20%
Class Participation	30%
Group Project	40%

Assessment& Evaluations:

1. Quizzes will be announced, and will evaluate student understanding and application of classroom discussions and reading materials. All quizzes whether in class or web-based are individual evaluations and academic honesty policies will be enforced.
2. Written papers and verbal presentations will be used to assess the student’s depth of knowledge and understanding of a particular topic.
3. Classroom discussions will be used to provide instructional feedback and assessment of the students’ understanding of the class objectives.

Class participation:

Students are expected to actively participate in discussions during class. It is not the role of the instructor to make sure students participate by calling on them in class. Students should raise their hand and participate in discussions independently. Students are expected to come to class prepared, having completed any necessary preparation material(s). Students who do not participate in class will not receive full participation credit. Class participation will be assessed periodically and at least a total of 4 times during the semester.

Class Participation Rubric		
0	1	2
Does not participate voluntarily; only participates when prompted	Participates in class discussion, but minimally; short answers	Meaningful contributions to class discussions

Course Grade Scale:

93 – 100	4	87 – 92	3.5
80 – 86	3	75 – 79	2.5
70 – 74	2	65 – 69	1.5
60 – 64	1	< 60	0

Required Text:

Required readings as indicated by the instructor.

Attendance Policy:

Class attendance is **mandatory**. Any unexcused absence will result in a 0.5 point deduction from the final course grade (i.e. 4.0 becomes 3.5). There will be no makeup of quizzes for unexcused absences, and a grade of **zero** will be given. In circumstances where the absence is excusable, the student must contact **Dr. Bolesta (570-408-4203; scott.bolesta@wilkes.edu)** at least one-half hour before class. Make-up quizzes or assignments for these cases will be given at the discretion of the instructors.

Assignment Policy:

1. Assignments are **due at the beginning of class** on the dates announced by the instructor. Assignments will **not** be accepted after the due date.
2. In-class assignments may be hand written, but must be submitted in a legible form. Illegible assignments will not be given full credit.

Projects: (Specific criteria for these assignments will be provided)

To successfully complete this class, these projects are required:

1. Written and verbal presentation for a Pharmacy and Therapeutics Committee Meeting

Academic Honesty:

Any student who violates the Intellectual Responsibility and Plagiarism Policy as stated in the 2012-2013 University Undergraduate Student Handbook will be subject to disciplinary action which may include failure of the course (see the Student Handbook pgs. 77-78 for details).

Professionalism

(adapted from Purkenson D. University of Washington)

As consistent with expectations of the practice environment, professional behavior and attitudes are expected for all students enrolled in professional practice courses. Professionalism is demonstrated by a student who:

- uses appropriate use of verbal & non-verbal communication
- is punctual
- is reliable, dependable, and accountable for one's actions
- behaves in an ethical manner
- produces quality work
- accepts constructive criticism and modifies behavior if necessary
- is cooperative – i.e. non-argumentative; willing and helpful
- is non-judgmental – student demonstrates an attitude of open-mindedness towards others and situations; does not “stereotype” others or prejudge situations
- communicates assertively – actively and appropriately engages in dialogue or discussion
- is self-directed in undertaking tasks; self-motivated
- is respectful – demonstrates regard for self, standardized patients, peers, faculty, staff, and university property
- is empathetic – demonstrates appreciation of others' positions; attempts to identify with others' perspectives; demonstrates consideration towards others
- handles stress – remains calm, levelheaded, and composed in critical, stress or difficult situations
- is an active learner – seeks knowledge; asks questions, searches for information, takes responsibility for own learning
- is confident – acts and communicates in a self-assured manner, yet with modesty and humility
- follows through with responsibilities – if task is left incomplete or problem is not resolved, student seeks aid

- is diplomatic – is fair and tactful in all dealings with patients, peers, faculty, and staff.
- is appropriately attired
- demonstrates a desire to exceed expectations – goes “above and beyond the call of duty,” attempts to exceed minimal standards and requirements for tasks/assignments/responsibilities
- utilizes time efficiently – allocates and utilizes appropriate amounts of time to fulfill responsibilities; utilizes others’ time wisely

Lack of respect for other students, professors or staff as demonstrated by comments, tone of voice, or disruptive behavior will **not be tolerated**. Everyone has a right to be heard and should be able to express their constructive comments without ridicule. When expressing opinions etc. “I” phrases should be used. Additionally, there is to be no eating in the classroom. Students who violate the professionalism policy may be dismissed from class. Re-entry into the class can only occur after the student writes an essay on professionalism and civility; the essay must be deemed acceptable by the instructors. Depending on the specifics of the violation, other measures may be taken by the instructors, including but not limited to failure of the course.

All cell phones, pagers etc. are to be on **silent mode** during class or **turned off**. Cell phones and pagers are **NOT** to be answered during class time.

Dress Code:

When there is a guest speaker, students are expected to dress professionally. Professional dress is defined in the Pharmaceutical Care Lab syllabus. Failure to dress professionally will result in a reduction in the class participation grade.