NUR 216
Advanced Nursing Pharmacology

Syllabus
Spring 2017

Office hours are posted on the faculty websites.

I. **Credit**: 1.5 semester hours

II. **Prerequisite**: NUR 101, NUR 110, NUR 115, NUR 111, and NUR 121,

III. or permission of the department head

III. **Time Allotment Weekly**: 1.5 hours per week

IV. **Course Description**: This course focuses on the concepts of pharmacotherapeutic actions and drug interactions among different classes of drugs. The effects of these agents on individuals throughout the life span are examined. The utilization of effective clinical judgment and monitoring of drug regimens in the treatment of disease states and/or primary health care are presented. Potential drug interactions as a consequence of multiple drug regimens; significant adverse reactions; dangers inherent in self-medication; and overuse of commonly prescribed medications are investigated. Emphasis is placed on indications for usage, modes of action, effects, contraindications and interactions of selected drugs and their classifications. Students learn more advanced drug dosage calculations and administration of critical care drips, emergency medications and related specific nursing responsibilities. The importance of accountability associated with nursing practice in administering pharmacological agents and monitoring and evaluating patient responses is stressed. *Hours: 19.5 lecture. Prerequisite: NUR 115 or permission of the department head. Usually offered in the fall and spring.*

V. **Course Objectives**: At the completion of this course, the student will be able to:

1. Utilize the nursing process to provide pharmaceutical nursing care to groups of clients, their families and/or significant others. (GEO: 1, 2, 3, 4, 6, 7, 9)

2. Analyze the actions, effects, and utilization of major categories of medications. (GEO: 3, 4, 5, 7)

3. Demonstrate accuracy in calculating drug dosages for the administration of intravenous administration of critical care and other medications requiring close monitoring and evaluation. (GEO: 3, 4, 5, 6, 8)

4. Analyze the physiological effects of pharmacological and therapeutic agents of individuals throughout the life span for specific disease states or disorders and describe factors which influence individualized patient responses to those therapeutic agents. (GEO: 1, 2, 3, 4, 5, 7, 8)
5. Synchronize drug characteristics and the teaching needed by individuals and families to properly adhere to prescribed pharmacological therapy. (GEO:1,2,5,7,8,9)

6. Facilitate the collaborative role of the Registered Nurse by utilizing the nursing process to monitor and evaluate pharmacological agents including accurately interpreting pertinent lab work. (GEO: 1, 2, 3, 4, 6,8)

7. Applies practices within the legal and ethical framework of nursing practice (GEO 1, 2, 3, 4, 8,9)

VI. **Method of Evaluation**

A. Course average is composed of:

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<tr>
<th>Component</th>
<th>Percentage</th>
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<tr>
<td>PIP Project</td>
<td>15%</td>
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<tr>
<td>3 Exams</td>
<td>20% (60%)</td>
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<tr>
<td>Final Exam</td>
<td>25%</td>
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B. Satisfactory completion of this course also includes:
- Attainment of course objectives
- Completion of the writing assignments

C. Grading scale:
- A = 100-90 = Excellent – intellectual initiative as well as high academic achievement
- B = 89-80 = Good – above average completion of course objectives
- C = 79-75 = Average – satisfactory understanding of course principles and techniques
- D = 74-66 = Poor – marginal understanding of course principles and techniques
- F = 65 or less = Unacceptable - course requirements and standards were not met

**There will be no rounding up of final grades:**

Example: 74.9 average is not considered a 75.

D. Criteria for all written work: All written assignments are due on the date indicated by the instructor/calendar. **Five (5) points will be deducted per day for each late graded assignment.** All written work must be typed, grammatically accurate and correctly spelled. Instructors will return assignments without evaluation if they do not meet these criteria. All written assignment requiring references must be completed utilizing APA, 6th Edition guidelines. An APA guidelines brochure, ‘Citing Source: APA Style (American Psychological Association)’ may be found in the resource center, AHB 108.

E. Each unsatisfactory written assignment may be redone only once. The maximum grade is 75% for resubmitted work.

F. Only one scheduled exam can be rescheduled. Any subsequent exam not taken or submitted on the originally scheduled date and time will result in a zero for that exam. Make up exams will be a different version of the exam and will scheduled in the testing center. Make up exams must be scheduled with the instructor and failure to take a make-up exam when scheduled will result in a zero for that exam.

G. **Missed Work Due To Absence**

   The student is responsible for any work missed due to absence and handing in written assignments on time.
VII. **Writing assignment**
   A. The objective of this assignment is to learn how to propose a process improvement project (PIP) via a presentation related to drug administration and a nurses’ role.

   B. The Process Improvement Project:

   Overall project background and guidelines: You are a nurse leader in your nursing facility. You are responsible for assessing and implementing a new process improvement project in your facility related to pharmacology to create a positive change in your area. Some examples are: the FDA, Policy and Procedure, Patient safety, polypharmacy, electronic health records, opioid therapy in the elderly, pain management in various populations, end of life medication care, safe handling of medications, herbal medication safety, sound-a-like medications, and JACHO rules. The process improvement project can be on anything that improves patient care and involves the pharmacology process of nursing.

   Prepare a 7-10 Microsoft Power Point slide (cover and reference slides do not count). The power point will contain detailed speakers notes. Please refer to the examples listed on black board. Please note that these examples are to illustrate the detailed speakers notes and proper citation methods.

   Use a minimum of 3 research articles, 1 of which suggests problems that may occur with the proposed change.

   This project will utilize APA 6\textsuperscript{th} edition throughout the project. Please refer to the rubric in Appendix 1 for grading and further explanation (p. 6-8).

   Questions to answer:
   1. Identify and describe the institution where the PICP will take place in.
   2. Identify the PIP (problem, system or process to be changed)
   3. Discuss the need for the change (such as regulatory, benchmarking, improved efficiency, patient satisfaction or other reasons why)
   4. Propose the changes needed to implement the project, including any special tools or technology
   5. Address any anticipated problems with the change implementation
   6. Create a possible plausible timeline for the change implementation
   7. Summary
   8. Provide detailed speaker notes in the notes pages of the presentation

VIII. **Teaching/Learning Methods**
Electronic Library Assignments
Case Studies
Lecture/Group Discussion
Electronic Library Assignment (GEO:7)
Videotapes
Simulations

IX. **Academic Honesty Policy**
Academic honesty is expected of all students. Cheating and plagiarism are violations of academic honesty. If academic dishonesty is suspected, a student may receive a zero on a test or paper. Discussion with the student will occur before penalties are implemented.
Purposeful dishonesty may be reported to the Student Faculty Disciplinary Committee (see College catalog). Students may appeal any penalty through the Student Faculty Disciplinary Committee (see College catalog). Cheating occurs when one uses deceitful or dishonest means to obtain information, e.g. crib notes, copying from another’s test paper, etc. Plagiarism is copying or imitating the language and ideas of another, without footnoting, and presenting them as one’s work, e.g. copied papers, abstracts, sections of books, etc. Students will be required to adhere to the following statement on all tests and exams. “I certify that I did not give or receive any information concerning this or previous tests before or during this test. I will not disclose or discuss the contents of the test with anyone outside of the classroom now or in the future. I understand that the penalty for violating this agreement is referral to the Student Faculty Disciplinary Committee and/or dismissal from the nursing program.”

IX. **Blackboard and Academic Integrity Statement**
Blackboard is being used as a supplementary site in this course. To access course content in Blackboard, you need to have access to a computer with an Internet connection, (other requirements may apply). Computers that meet these requirements are available on campus in MTC 200, AAB 217, HH 100, GH 204, WDC 305, and AHB 108.
Please follow these directions to access course syllabi and any other materials posted for this course:
Login Information
1. From Wor-Wic home page, point to “Quick Links: (top-right) and click “Blackboard Login” link.
2. Enter your Wor-Wic user ID and password (same as your Wor-Wic email user ID and password).
3. Don’t know your user ID or password? Contact Student Services.

Blackboard is a method to communicate your grades earned on graded assignments. This is not reflective of progress regarding ungraded computer and written assignments that are required to pass the course. IT DOES NOT REFLECT YOUR FINAL COURSE GRADE.”

X. **Academic Integrity and Computer Usage Policy**
All students logging into Blackboard affirm that they understand and agree to follow Wor-Wic Community College policies regarding academic integrity and the use of College resources as described in the college catalog. Wor-Wic Community College considers the following as violations of the computer usage policy:
- Using the campus computing network and facilities to violate the privacy of other individuals.
- Sharing of account passwords with friends, family members or any unauthorized individuals
Violators are subject to college disciplinary procedures.

XI. **Required Textbooks**


**Recommended Textbooks** - *These textbooks are additional resources to assist students in the course, but are NOT mandatory to purchase:*


**XII. H1N1 Statement**

*In the event of a flu epidemic or other emergency that results in the suspension of classes, faculty will be communicating with students about their courses and course requirements, such as assignments, quiz and exam dates, and class and grading policies, via faculty websites or Blackboard. Students will be responsible for completing all these assignments in accordance with class policies. Information about the resumption of classes will be communicated via the College’s website and email system.*

**XIII. Exam/Quiz Review**

Exams/quizzes are available in the instructor’s office to review for two weeks following grade distribution.

**XIV. Attendance Policy**

A. Students are requested to notify the nursing department when they will be tardy or absent from class.

B. Please refer to the Nursing Student Policy Handbook regarding the attendance policies.

**XV. Please turn off all cell phones and pagers during class. These devices are disruptive in the class.**

**XVI. There is NO recording (paper or electronic) of test/quiz reviews prior to or after exams. Audio recording of lectures may be allowed with the permission of the instructor.**

**XVII. SEXUAL VIOLENCE DISCLOSURES**

Wor-Wic Community College seeks a campus free of sexual violence which includes sexual harassment, domestic violence, dating violence, stalking and/or any form of sex or gender discrimination. Please be aware that if a student discloses a personal experience, verbally or in writing as a Wor-Wic student to a faculty or staff member, the employee cannot maintain confidentiality and has the mandatory responsibility to notify one of the college’s Title IX coordinators. However, if you would like to make a confidential disclosure of any such violence, you can contact Wor-Wic’s director of counseling (X-2900), or you can contact the Life Crisis Center at 410-749-HELP or 2-1-1.

Information on rights of victims of sexual violence and related resources is available in the college catalog and on the public safety page of Wor-Wic’s website:

[http://www/worwic.edu/Administration/PublicSafety.aspx](http://www/worwic.edu/Administration/PublicSafety.aspx).
The Process Improvement Project Rubric

The objective of this assignment is to learn how to propose a process improvement project (PIP) via a power point presentation related to drug administration and a nurses’ role.

The Change Project:

You are a nurse leader in your nursing facility. You are responsible for assessing and implementing a new process improvement project in your facility related to pharmacology. Please feel free to be creative with this project. Experiment with backgrounds and slide to slide transitions. Remember you can create your own ideal institution to discuss a potential change or base your project on a real-life situation. Perhaps where you are working there is a policy change underway. The purpose of this project is to prepare you to understand the process of change and how you can make change happen.

Some examples are: the FDA, Policy and Procedure, Patient safety, polypharmacy, electronic health records, opioid therapy in the elderly, pain management in various populations, end of life medication care, safe handling of medications, herbal medication safety, sound-a-like medications, and JACHO rules. The process change project can be on anything that improves patient care and involves the pharmacology process of nursing.

Questions to answer:

1. Identify and describe the institution where the PIP will take place in.
2. Identify the PIP (problem, system or process to be changed)
3. Discuss the need for the change (such as regulatory, benchmarking, improved efficiency, patient satisfaction or other reasons why)
4. Propose the changes needed to incorporate the planned solution, including any special tools or technology needed
5. Address any anticipated problems with the change implementation
6. Create a possible plausible timeline for the change implementation
7. Summary
8. Provide detailed speaker notes in the notes pages of the presentation

What to research:

New evidence based practice or new standards of practice can be the basis for a potential change. The potential changes are listed above and need to be related to the RN and pharmacology with a focus on patient safety.

Utilize the research data bases, professional journals, institutional policies and procedures and other such resources. Please use a minimum of 3 sources which are research articles related to the change project.
How to put the project together:

Prepare a Microsoft Power Point presentation. www.microsoft.com has many self-learning tutorials on how to prepare a power point presentation. At any point please ask your nurse educators your questions.

The power point will contain detailed speakers notes. Please refer to the examples listed on black board. Please note that these examples are to illustrate the detailed speakers notes and proper citation methods, not necessarily the content of your presentation.

This project will utilize APA 6th edition throughout the project. Please refer to the rubric on page 8 for grading.

Prepare a 7-10 slide Microsoft® PowerPoint® presentation with speaker notes and include the following topics:

Please be sure to bring any questions to your instructor. You may use more than 7 slides. You can increase the slides to 10, not counting the cover slide (slide 1) or the reference slides.

Slide 1 would be the cover slide. Identify the name of your project, your name, your instructors name and the date.

- Point 1: Identify and describe the institution where the PICP will take place (identify any type of institution where you would like your change project to take place. Feel free to create your ideal institution. Be sure to include the institution’s name, location, focus (hospital or other facility) and any other demographic identifiers.)

- Point 2: Identify problem, system, or process to be changed. (Decide on what area could change or use improvement.)

- Point 3: Discuss the need for the change such as: Regulatory (OSHA mandates, Benchmarking, Improved efficiency, Patient satisfaction) (Discuss one or two reasons why the area chosen needs to be changed. What is the rationale for the change? Research and evidence based practice or best practice can be reasons why.)

- Point 4: Propose system changes needed to incorporate for your planned solution, including tools and technologies. (What is the end result? Then discuss how you will reach the end result. Will you utilize a grant for funding? Do you need computers? What other technology or resources is needed?)

- Point 5: Address anticipated problems or concerns and how they will be dealt with.

- Point 6: Create a timeline for change implementation. Please be detailed as to what will be implemented when and include staff education. (This is just a proposed timeline. Think about how long it will take to complete each step and put this information into a timeline. Make it as realistic as possible.)

- Point 7: Summary (Summarize what the project covered.)

- Provide detailed speaker notes in the Notes Pages of the presentation. (In the area below each slide is a blank area. Please be sure to have an in depth discussion on each slide. There should be in-text citations just as if this was a paper. Please see the examples provided to you. Please feel free to ask questions.)

- The following slides will be your references. Be sure to follow APA 6th edition.

Submit the presentation to faculty electronically.
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<thead>
<tr>
<th>Content 19 points possible</th>
<th>Points available</th>
<th>Points earned</th>
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<tr>
<td>• Identifies and describes the institution where the PICP will take place</td>
<td>1</td>
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<td>• Identify the PICP</td>
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<td>• Discuss the need for the change or enhancement (such as regulatory, benchmarking, improved efficiency, patient satisfaction or other reasons why)</td>
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<td>• Proposed changes needed to incorporate the planned solution, including any special tools or technology needed</td>
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<td>• Possible difficulties or disadvantages to the change</td>
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<td>• Timeline</td>
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<td>• Summary</td>
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<td>• Provides very detailed speakers notes on each slide</td>
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<th>Format 6 points possible</th>
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<tr>
<td>• Meets minimum slide count of 7 slides, not counting cover slide or references</td>
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<td>• Follows rules of grammar, usage, and punctuation</td>
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<td>• Has a structure that is clear, logical, and easy to follow</td>
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<td>• Consistent with APA guidelines for formatting and citation of outside works</td>
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<td>• References support chosen change and address possible challenges</td>
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