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| **\*Example Syllabus with Recommended**  **Integration Plan Materials Highlighted\*** |

**Shadow Health University**

**Nursing 730 Pharmacology for Advanced Practice Nurses**

**Semester Year**

**Course Time and Location:**

Beginning Date: TBA

End Date: TBA

Class Location: 110 Shadow Building

Meeting Times: TBA

Course Site: http://www.examplewebisteuniversity.edu/

**Prerequisites/Corequisites:**

Enrollment in the Graduate Nursing Program

Nursing 720 Advanced Pathophysiology

**Contact Information:**

Faculty Name: Professor Shadow

Contact Information: Emailaddress@Email.com

Shadow Health Technical Support:

If at any time you have any questions or encounter any technical issues regarding the Digital Clinical Experience, please contact the Shadow Health support specialists by visiting the Learner Support Page at [http://support.shadowhealth.com](http://support.shadowhealth.com/) for contact information and hours. You may email the Learner Support team directly at mailto:support@shadowhealth.com at any time or by calling 800.860.3241.

**Course Description:**

This course focuses on pharmacological principles and drug classes. This is an advanced course that will build upon the student’s knowledge of pharmacology gained during undergraduate studies and nursing practice. Students will practice the clinical application of advanced pharmacology and pharmacotherapeutics for common diseases encountered in primary care settings. Pharmacodynamics will be discussed relative to age, race, and ethnic groups.

**Learning Objectives:**

Upon completion of this course, the student will be able to:

1. Apply the principles of pharmacology relative to pharmacotherapeutics across age levels including the impact of race, ethnic group.
2. Discuss the indications, rationale, efficacy, and risks for pharmocotheraputics agents commonly prescribed in primary care settings.
3. Analyze the rationale for selection of medications used to treat frequently encountered primary care conditions.
4. Describe strategies for monitoring expected effects and potential adverse effects of medications.

**Required Materials:**

1. Smith, Tonya MA, Shadow Publishing TL, et al (eds). Pharmacotherapy Principles and Practice, 3rd edition. Gainesville, FL: Gator Books, 2013.

\*\*\*There are several different textbooks that would all work well

2. Shadow Health. (2019). Digital Clinical Experience (Version 2018\_08) [Software].

(ISBN: 978-0-9897888-0-9) Available from [http://www.shadowhealth.com](http://shadowhealth.com)

**For registration and purchase**

1. Registration directions:<http://link.shadowhealth.com/How-To-Register>

If you already have a Shadow Health account, you do not need to register for an additional student account. To add a course to your existing account log in and follow these instructions:<http://link.shadowhealth.com/How-To-Add-A-Course>

2. Enter Course PIN **[Example0000-0000-0000-0000]**

3. Share this orientation video with your students:<https://link.shadowhealth.com/Student-Orientation-Video>

**Login page:**<http://app.shadowhealth.com>

**Technical requirements**

1. Review requirements:<http://link.shadowhealth.com/Minimum-System-Specifications>

2. Tablets and mobile devices are not currently supported.

3. To use Speech-to-Text, you must complete assignments in Google Chrome

**Shadow Health Support:**

1. Contact Shadow Health with any questions or technical issues regarding Shadow Health **before** contacting your instructor.

2. Support is available at [http://support.shadowhealth.com](http://support.shadowhealth.com/).

**Assignment Descriptions:**

**Participation:**

Active class participation is expected in this course. Your instructor will keep track of attendance and your level of participation in the course. Active class participation is crucial to maintaining the positive learning environment of the classroom and reflects upon your commitment to the disposition expected of a developing nurse. Components of active class participation include, but are not limited to the following:

* Attendance and punctuality
* Completion of submissions by the due date (points will be deducted from participation for late work)
* Contribution to class discussions

**The Shadow Health® Advanced Pharmacology Digital Clinical Experience™ (DCE)**

The DCE is designed to give you a safe environment to practice selecting drugs to treat diseases in adult patients based on factors such as pharmacokinetics, cost, efficacy, genetics, adherence, and quality of life issues. Each assignment emphasizes communication, documentation, and critical thinking skills. You are allowed to make corrections or additions to all assignments to implement the immediate feedback that Shadow Health provides you with on each assignment.

Our goal is to set you up for success and improve your critical thinking and patient assessment skills.

The Digital Clinical Experience is free of many of the constraints and interruptions you face in a hospital or clinical setting. This unique simulation experience allows you to conduct in-depth patient exams and interviews at your own pace.

Because the exams are in-depth, these assignments will often take over an hour to complete, so it is important to plan enough time to complete your assignments each week.

**Shadow Health Grading**

All assignments will be graded using the DCE Score. Reopening and multiple attempts are allowed.

**Online Discussion:**

Active participation in the online discussion boards is expected and is crucial to maintaining the positive learning environment of the classroom. It reflects upon your commitment to the disposition expected of an advanced practice nurse in this course. Your instructor will keep track of your level of participation. Components of an active discussion include, but are not limited to the following:

* Initial and reply posts being made by the due dates
* In-depth responses to the reply posts
* Additional health information provided by the posts
* Online etiquette

You will have 5 discussions that will constitute 15 percent of your final course grade.

**Midterm Exam:**

The midterm exam will assess your content knowledge and skills. The midterm exam will include material from the weekly assigned textbook readings. This exam will be worth 20 percent of your final course grade and will be administered via Scantron in class.

**Semester Quizzes:**

There will be 5 quizzes administered during the course that will assess your content knowledge and skills. The quizzes will cover material from the assigned readings/textbook. Each quiz will be worth 5 percent of your final course grade. All quizzes will be multiple choice and administered via Scantron in class. You will be allowed to make corrections on these quizzes for a potential extra 2.5 percent to your semester quiz percentage total. Corrections must include justification for the correct answer with references to specific pages in your textbook.

**Final Exam:**

The comprehensive final exam will assess your content knowledge and skills. The final exam will include material from the weekly assigned textbook readings. This exam will be worth 25 percent of your final course grade and will be administered via Scantron in class.

**Graded Assignments**

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| **Assignment** | **Weight %** |
| Shadow Health™ Assignments | 30% (Each virtual patient interaction will make up 5% of your total grade) |
| Online Discussion | 15% (5 discussions @ 3% each) |
| Midterm Exam | 20% |
| Semester Quizzes | 20% (4 quizzes @ 5% each) |
| Final Exam | 25% |

**Grading Scale**

Your final grade will be determined by the percentage of these points that you earn.

90-100% = A

80-89% = B

70-79% = C

60-69% = D

0-59% = F

**Course Schedule**

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| **Week** | **Textbook Reading** | **Quizzes, Exams, and Assignments** |
| **Week 1** | **General Principles for**  **Advanced**  **Pharmacology**  Introduction, Drug use process, medication errors,  (chapter 1) | Introduction Video &  Pharmacology Orientation  (Approx. 15 minutes)  Online Discussion #1: medication errors |
| **Week 2** | **General Principles for**  **Advanced**  **Pharmacology**  Pharmacodynamics, pharmacokinetics  (chapter 1) |  |
| **Week 3** | **Population Specific**  **Pharmacotherapeutic Issues**  Pregnancy, lactation, pediatrics  (Chapters 2, 3) | Quiz #1  Online Discussion #2: Antimicrobial considerations in neonatal and pediatric acute care |
| **Week 4** | **Population Specific**  **Pharmacotherapeutic Issues**  Geriatrics,Pediatrics, critically ill, renal failure, malnutrition;  Pharmacogenetics  (Chapters 2, 3) | - Shadow Health DCE: GAS Pharyngitis: Sophia Haddad  Online Discussion #3: Safe prescribing for the older adult |
| **Week 5** | **Infectious Diseases**  Advanced pharmacology & therapeutics of antimicrobials  (Chapter 69, 71) | -Shadow Health DCE: UTI with Antibiotic Hypersensitivity: Makayla Henderson  -Shadow Health Anti-infectives Concept Lab |
| **Week 6** | **Infectious Diseases**  Management of Pneumonia  (Chapter 69, 71) | -Shadow Health DCE: CAP: Anita Douglas |
| **Week 7** | **Cardiovascular**  Advanced pharmacology & therapeutics of  CV medications  (Chapters 5, 6, 12) | Quiz #2  -Shadow Health Anti-Hypertensives Concept Lab |
| **Week 8** | **Cardiovascular**  Management of hypertension, heart failure, and dyslipidemia  (Chapters 5, 6, 12) | -Shadow Health DCE: Hypertension and Type 2 Diabetes:Arun Patel |
| **Week 9** | **Midterm Exam** |  |
| **Week 10** | **Pulmonary**  Advanced pharmacology & therapeutics of  pulmonary  meds; management of asthma  (Chapters 14, 15) | -Shadow Health DCE: COPD  Debbie O’Connor  -Shadow Health Anti-Asthmatics Concept Lab |
| **Week 11** | **Neurology/Psychiatry**  Advanced pharmacology & therapeutics of  neuro agents  (Chapters 31, 34, 38, 39, 40) | Online Discussion #4: Prescribing mental health medications |
| **Week 12** | **Neurology/Psychiatry**  Management of pain, epilepsy, and mood disorders  (Chapters 31, 34, 38, 39, 40) | -Shadow Health DCE: Pain Management:  Tanner Bailey  -Shadow Health Analgesics Concept Lab |
| **Week 13** | **Gastrointestinal**  Advanced pharmacology & therapeutics of  GI medications; management of acid disorders and motility disorders  (Chapters 17, 18, 20, 21) | Quiz # 3 |
| **Week 14** | **Endocrine**  Advanced pharmacology & therapeutics of endocrine  Meds  (Chapters 43, 56, 26) | Online Discussion #5: Counseling and prescribing a new diabetic  -Shadow Health Antidiabetics Concept Lab |
| **Week 15** | **Endocrine**  Management of diabetes, osteoporosis, chronic kidney disease  (Chapters 43, 56, 26) | Quiz #4 |
| **Week 16** | **Final Exam** |  |