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Senate App-12/1/15

[NURS][340][Nursing Pharmacology]-DEAdd-2015-09-21

Form Information

Page Naming Example: CRIM 101 Intro to Criminology-DEAdd-2015-08-10

Please direct any questions to curriculum-approval@iup.edu

*Indicates a required field

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Proposing Department/Unit*	Department of Nursing and Allied Health Professions	Contact Phone*	724 357 2557

Course Level* undergraduate-level

Distance Education Section

- Complete this section only if adding Distance Education to a New or Existing Course

Course Prefix/Number

NURS 340

Course Title

Nursing Pharmacology

Type of Proposal

See CBA, Art. 42.D.1 for Definition

online

Brief Course Outline

Give an outline of sufficient detail to communicate the course content to faculty across campus. It is not necessary to include specific readings, calendar or assignments

As outlined by the federal definition of a "credit hour", the following should be a consideration regarding student work - For every one hour of classroom or

direct faculty instruction, there should be a minimum of two hours of out of class student work.

Course Description: Provides the nursing student with a pathophysiological approach to the therapeutic use of medications. Explores relationships between pharmacology and pathophysiology. Emphasizes understanding prescribed pharmacotherapy, therapeutic goals, nursing assessment and interventions, and patient well-being related to the effects of specific diseases or conditions.

Rationale for Proposal (Required Questions from CBA)

How Is/are the instructor(s) qualified

Dr. Michele Gerwick developed an elective for the undergraduate nursing program entitled: NURS 340 Nursing Pharmacology. This course was offered three times as a special topics course and then received University approval in 2007. This course has been offered for a total of four times.

in the Distance Education delivery

Dr. Michele Gerwick has taught a hybrid doctoral course NURS 862 Curriculum Evaluation in Nursing Education in Spring 2014 and is currently teaching a hybrid doctoral course NURS 860 Faculty Development in Nursing Education (Fall 2015). For both of these course D2L was utilized.

method as well as the discipline?

With the current budget issues, the department decided not to offer electives in the classroom. The department faculty would like to see this course offered as a Distance Education course for our undergraduates (Faculty Organization Meeting May 2012, Faculty Organization Meeting September 2015).

Dr. Michele Gerwick has been teaching in the Department of Nursing and Allied Health Professions since 1989. She has taught in both the undergraduate and graduate programs and has current graduate eligibility for Master and Doctoral courses. She has taught NURS 436 Adult Health II, NURS 437 Adult Health II Clinical, NURS 336 Adult Health I (team taught), NURS 337 Adult Health I Clinical, NURS 316 Evidence Based Practice in Nursing, NURS 312 Professional Nursing II, sophomore level theory and clinical courses (for 10 years - course numbers changed with last curriculum revision), Master's level courses in Adult Health and PhD courses NURS 862 Curriculum Evaluation in Nursing Education and NURS 860 Faculty Development in Nursing Education (currently teaching this semester).

As an instructor for the clinical courses listed, a major responsibility is to teach student nurses their role in the pharmacological management of specific diseases and conditions. It is also the instructor's responsibility to teach students how to safely administer medications and utilize methods to enhance student's understanding of pharmacology and nursing care.

Dr. Michele Gerwick has attended numerous conferences which address pharmacological issues for the adult client offered by PESI Health Care, AMSN and Faculty Development conferences which offer CEUs. **The most recent conferences include:**

Academy of Medical Surgical Nurses (AMSN) 22nd Annual Convention - September 2013 16.0 CEUs

Contemporary Forums/Elsevier Faculty Development Conference January 2013 16.25 CEUs

Fundamentals of Critical Care (PESI) August 2012 6.3 CEUs

Cardiac Medications: Evidenced-Based treatment for Complex Cardiac Conditions (PESI) March 2012 6.3 CEUs

Infectious Diseases (PESI) September 2010 6.3 CEUs

Other recently earned CEUs regarding pharmacological issues include:

Chronic Pain Syndromes: Current Concepts and Treatment Strategies 2/23/15 - 15 CEUs

Medical Marijuana and Other Cannabinoids 2/23/15 - 5 CEUs

Relationship of Glucose Values to Sliding Scale Insulin (Correctional Insulin) Dose Delivery and Meal Time in Acute Care Patients with Diabetes Mellitus 9/11/13- 1.3 CEUs

Managing Pain in Opioid-Dependent Patients in General Hospital Settings 2/4/13 - 1.3 CEUs

Clots Kill: Hematologic Pharmacology for ST Segment Elevation Myocardial Infarction. 1/21/13- 1.0 CEUs

Block the Bleed: Pharmacologic Therapies for Gastroesophageal Variceal Bleeding. 11/12/12 - 1.3 CEUs

Hepatitis C Treatment 10/14/12 -1.0 CEUs

Managing Diabetes Mellitus 7/23/12 - 1.0 CEUs

Anesthesia & the Elderly 7/23/12- 1.0 CEUs

Acute Coronary Syndrome: An Overview for Nursing 5/11/12 -3.5 CEUs

Asthma Diagnosis and Management 5/11/12- 2.0 CEUs

Dr. Michele Gerwick is a long time member of the department Curriculum Committee and she identified the various medications required to be taught for each course in the current undergraduate curriculum.

In September 2012, Dr. Michele Gerwick served as a textbook reviewer for the following text: Holland, L and Adams, M (2011). *Core Concepts in Pharmacology* (3rd Ed.). Boston, MA: Pearson.

In March 2010, Dr. Michele Gerwick completed a Chapter Review "Pain Management" and a Chapter Review of "Pharmacology Nursing Management" for Daniels, R et al (2010). *Contemporary Medical-Surgical Nursing*. Delmar Publishing.

For each outcome in the course, describe

Objective 1. Explain the methods for grouping drug into therapeutic and pharmacological classes.

how the outcome will be achieved using

Distance Education technologies.

Students will be assigned course content through required course readings and Power Point Slides. Course readings will include readings from textbooks and journals. Throughout the Power Point slides there will be text features/exercises incorporated from the Karch textbook chapters which include: *identified drug prototypes, drug therapy across the lifespan, gender considerations, cultural considerations, patient safety issues and drug calculations*. These items will assist the students to demonstrate their understanding of the presented content. Students will be evaluated on this objective through course exams and quizzes which utilize NCLEX-style questions such as multiple choice and select all that apply.

Objective 2. Explain the applications of pharmacokinetics and pharmacodynamics,

Students will be provided course content through required course reading and Power Point Slides. Students will complete assigned reading from the textbook. Throughout the course, students will be required to address application of pharmacokinetics and pharmacodynamics in order to understand the functioning of drugs and also how drugs move throughout the body. These concepts will be applied to the various classification of medications covered in this course. The students will be required to complete quizzes and case studies throughout the course through the use of the texts: Karch, A. (2013) *Focus on nursing pharmacology* (6th Ed.), and the Karch, A (2013) *Study guide for focus on nursing pharmacology* (6th Ed.). These features from the text and study guide will be utilized in order to enhance the student's understanding of these concepts. Students will also gain a better understanding of these two concepts through the use of the drug handbook. Students will be evaluated on this objective through course exams which utilize NCLEX-style questions such as multiple choice and select all that apply.

Objective 3. Describe the nurse's roles and responsibilities in the pharmacological management of specific diseases and conditions.

Students will be provided course content through required course reading and Power Point Slides. Students will complete assigned textbook and journal readings which will include the following classification of medications which fall under the larger umbrella of such topics as: Drugs that Affect the Autonomic Nervous System, Central and Peripheral Nervous System, Cardiovascular System, Respiratory System, Endocrine System (Pituitary, Thyroid, Adrenals and Pancreas), Renal System, Gastrointestinal System, Immune System, Chemotherapeutic Agents, Infectious Disease Drugs and Anti-Inflammatory Drugs. Students will be required to complete assigned *Check Your Understanding* quizzes found at the end of the chapter in the Karch text. They will also be required to complete assigned *Practicing for NCLEX* quizzes from the Karch Student Study Guide. Students will be required to complete assigned case studies found in the Karch Student Study Guide. These quizzes and case studies are assigned in order to enhance the student's understanding of various drugs and their management of specific diseases and conditions. Students can find the answers for all of these learning exercises in the back of the textbooks. They will be encouraged to review any material in the chapter(s) if anything is not clear to them after completing these exercises. Students will also meet this objective through the develop of a Drug Fact Sheet (see course syllabus p. 2) and reading journal articles (see final exam in course syllabus p. 2). Students will be evaluated on this objective through course exams and quizzes which utilize NCLEX-style questions such as multiple choice and select all that apply.

Objective 4. Understand the rationale for prescribed pharmacotherapy for specific diseases and appropriate nursing care.

Objective #4 will be met utilizing the same methods stated in Objective #3. Students will be provided course content through required course readings and Power Point Slides. Students will complete assigned textbook and journal readings which will include the following classifications of medications which fall under the larger umbrella of such topics as: Drugs that Affect the Functioning of the Autonomic Nervous System, Central and Peripheral Nervous System, Cardiovascular System, Respiratory System, Endocrine System (Pituitary, Thyroid, Adrenals and Pancreas), Renal System, Gastrointestinal System, Circulatory System, Immune System, Chemotherapeutic Agents, Infectious Disease Drugs and Anti-Inflammatory Drugs.

Students will be required to complete assigned *Check Your Understanding* quizzes found at the end of the chapter in the Karch text. They will also be required to complete assigned *Practicing for the NCLEX* quizzes from the Karch Student Study Guide. Students will be required to complete assigned case studies found in the Karch student Study Guide. These quizzes and case studies are assigned in order to enhance the student's understanding of various drugs and their management of specific diseases and conditions. Students can find the answers for all of these exercises in the back of the textbooks. They will be encouraged to review any material in the chapter(s) if anything is not clear to them after completing these exercises. Students will also meet this objective through the development of a Drug Fact Sheet (see course syllabus p. 2). Students will be evaluated on this objective through course exams and quizzes which utilize NCLEX-style questions such as multiple choice and select all that apply.

Objective 5. Identify necessary assessment data and interventions pertinent to medication administration.

Students will be provided course content through required course readings and Power Point Slides. Students will complete assigned readings from the textbook and gain information from the required drug handbook. Throughout the course, students will be required to address necessary assessment data and interventions pertinent to medication administration of the various classifications of medications covered in this course. Necessary assessment data and interventions will include: pertinent nursing interventions necessary to administer the medication safely, knowledge of serum drug levels when applicable, pertinent lab values when applicable and identifying necessary antidotes when an adverse drug reaction occurs. This objective will be met through the completion of the assigned quizzes (from both text), case study questions from the Student Study Guide and the NCLEX-style questions (multiple choice and select all that apply) on the course exams. Students will also meet this objective through the development of a Drug Fact Sheet and the utilization of their selected drug handbook. (Drug handbooks address pertinent labs, nursing interventions, patient safety issues for medication administration, adverse effects and antidotes. Students are encourage to use the handbook as a supplement to their reading assignments). Students will be evaluated on this objective through the course exams which utilize NCLEX-style questions such as multiple choice and select all that apply.

Objective 6. Evaluate the impact of prescribed pharmacotherapy for patient well-being.

Students will be provided course content through required course reading and Power Point Slides. Students will complete assigned textbook and journal readings and gain information from the required drug handbook. (students are directed in the course syllabus to utilize a drug handbook of their choice) This objective will be met through the completion of assigned quizzes (from both textbooks), Case study questions from the Student Study Guide and NCLEX-style questions (multiple choice and select all that apply) on the exams. Students will be evaluated on this objective through the course exams which utilize NCLEX-style questions such as multiple choice and select all that apply.

How will the instructor-student and

Instructor-student and student-student interaction:

student-student interaction take place?

The course instructor will respond to students on-line through D2L postings and IUP email. The course instructor will answer student questions related to course content via IUP email. Specific office hours will be allotted for students to interact one-to-one with the instructor. This information will be posted on D2L. The instructor's office, home and cell phone numbers will be given out on an individual basis as needed. For the purpose of this course, there is no student-student interaction.

(if applicable)

How will student achievement be evaluated?

Evaluation of Student Achievement

The course grade will be based on the following assignments and their percentages:

Exams - (75%) There will be a total of four course exams worth (60%) and a final exam worth (15%). Students will be required to complete all of the exams and final. They will be permitted to utilize textbooks or course materials to assist them with the completion of the exams. The purpose of open book exams in this course is to assist the students in learning from the exam. Completed exams must be posted on-line by a specified date and time identified in the course syllabus. For the final exam, students will be required to read 2 CEU articles, complete the multiple choice quizzes at the end of each article and then submit the completed quizzes on-line. Students are required to select two articles from a list provided in the course syllabus (p.2).

Quizzes (15%) These will be quizzes assigned for each drug classification as listed on the course syllabus. Quizzes will be utilized from the text and study guide. In the Karch text, quizzes appear at the end of the chapter and are entitled: *Check Your Understanding*. In the Karch student study guide, quizzes appear in each chapter and are entitled: *Practicing for the NCLEX*. Completed quizzes must be posted on-line. Both textbooks provide multiple choice and select all that apply type questions. These types of question formats are utilized on the state nursing licensure exam.

Case Studies (5%) Students are assigned to complete 4 case studies throughout the course. Completed case studies must be posted on-line. The case studies will assist students in understanding drug implications, patient safety issues and nursing care.

Drug Fact Sheet (5%) Each student is required to develop and post a Drug Fact Sheet on an assigned drug. Students will receive a name of a drug from the instructor on the first day of class posted on D2L. the Drug Fact Sheet will focus on the following information: name of the drug (generic and brand), therapeutic class, pharmacological class, pharmacokinetics, actions and indications, side effects, nursing considerations and patient/family teaching. Students will receive due dates for their Drug Fact Sheet posting which will coincide with assigned readings.

**How will
academic
honesty for tests**

Academic honesty/integrity

**and assignments
be addressed?**

University policy concerning academic integrity and plagiarism will be enforced. These policies are addressed in the course syllabus and students are directed to the policies in the Undergraduate Catalog. (see course syllabus p.7). Students are expected to work alone on all exams and on the final exam. The statement also appears in the course syllabus (p.2).