

Cover Sheet: Request 12321

NUR3XXX Pathophysiology/Pharmacology in Nursing 2

Info

Process	Course New Ugrad/Pro
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Cecile Kiley ckiley@ufl.edu
Created	2/19/2018 11:32:11 AM
Updated	2/19/2018 5:29:49 PM
Description of request	This is an upper division second semester course in the nursing undergraduate program. This new course is part of the redevelopment of our undergraduate program.

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	NUR - Nursing 313101000	Anna McDaniel		2/19/2018
Case Study Description - NUR 3XXX.docx					2/19/2018
College	Approved	NUR - College of Nursing	Anna McDaniel		2/19/2018
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			2/19/2018
No document changes					
Statewide Course Numbering System					
No document changes					
Office of the Registrar					
No document changes					
Student Academic Support System					
No document changes					
Catalog					
No document changes					
College Notified					
No document changes					

Course|New for request 12321

Info

Request: NUR3XXX Pathophysiology/Pharmacology in Nursing 2

Description of request: This is an upper division second semester course in the nursing undergraduate program. This new course is part of the redevelopment of our undergraduate program.

Submitter: Cecile Kiley ckiley@ufl.edu

Created: 2/19/2018 11:24:25 AM

Form version: 1

Responses

Recommended Prefix NUR

Course Level 3

Number XXX

Category of Instruction Intermediate

Lab Code None

Course Title Pathophysiology/Pharmacology in Nursing 2

Transcript Title PATHO/PHARM IN NSG 2

Degree Type Baccalaureate

Delivery Method(s) On-Campus

Co-Listing No

Co-Listing Explanation Not applicable

Effective Term Spring

Effective Year 2019

Rotating Topic? No

Repeatable Credit? No

Amount of Credit 3

S/U Only? No

Contact Type Regularly Scheduled

Weekly Contact Hours 3

Course Description This is the second of a two-semester sequence of Pathophysiology and Pharmacology in Nursing. The emphasis is on examining pathophysiology of human illness in diverse groups of individuals across the lifespan utilizing a systems based approach. Nursing implications for safe and effective delivery of related pharmacotherapeutic agents is incorporated.

Prerequisites NUR 3106 Lead and Inspire 1: Professional Nursing Practice

NUR 3066C Clinical Reasoning Health Assessment

NUR 3XXX Pathophysiology/Pharmacology in Nursing 1

NUR 3737C Principles of Personalized Nursing Care 1

Co-requisites None

Rationale and Placement in Curriculum This is an upper division second semester course in the nursing undergraduate program. This new course is part of the redevelopment of our undergraduate program.

Course Objectives 1. Utilize principles from genetic and biobehavioral sciences to explain relationships between pathophysiology and clinical manifestations of illness associated with selected body systems.

2. Apply principles of pharmacotherapy, pharmacokinetics, pharmacodynamics, and pharmacogenomics in the treatment of human illness.

3. Examine the benefits and limitations of selected safety-enhancing technologies and medication administration practices.

4. Anticipate the nurse's responsibility for recognizing therapeutic effectiveness, common and life-threatening side effects, and adverse reactions of various pharmacologic agents.

5. Distinguish individual factors such as age, developmental, psychosocial, cultural, environmental, genetic, economic, and gender considerations may affect the response to treatment and adherence.

6. Utilize learning and behavioral theories to design effective teaching strategies for patient and family

medication management.

7. Evaluate legal and ethical parameters of personalized pharmacotherapy.

Course Textbook(s) and/or Other Assigned Reading McCance, K. & Huether, S. (2014). Pathophysiology: The Biologic basis for disease in adults and children, (7th ed.). Mosby.

Lilley, L., Collins, S. R., Snyder, J. (2015). Pharmacology and the Nursing Process (8th ed.). Mosby.

Weekly Schedule of Topics DATE TOPIC

Weeks 1-4 Integumentary System (including wound care products)

Selected Drug categories associated with system**

Drug Actions, Interactions,
Medication Calculation

Administration Concepts-

Safety, Technology Systems,
Education

Economic implications of Medication management

Medication Adherence

Implications of cultural beliefs

Legal & Ethical

Weeks 5-8 Neurologic System (including Pain, anxiety, depression & Sleep disturbances)

Cardiopulmonary Systems

Selected Drug categories associated with system**

Weeks 9-12 Gastrointestinal System

Genitourinary System

Reproductive Health

Selected Drug categories associated with system**

Weeks 13-15 Endocrine System

Musculoskeletal System

Selected Drug categories associated with system**

Links and Policies Please see the College of Nursing website for student policies (<http://students.nursing.ufl.edu/currently-enrolled/student-policies-and-handbooks/>) and a full explanation of each of the university policies - <http://nursing.ufl.edu/students-2/student-policies-and-handbooks/course-policies/>

Attendance

UF Grading Policy

Accommodations due to Disability

Religious Holidays

Counseling and Mental Health Services

Student Handbook

Faculty Evaluations

Student Use of Social Media

Grading Scheme Exams 45%

Case Studies 25%

Final Exam 30% (cumulative)
100%

(74% minimum grade for passing)

Instructor(s) To Be Determined

NUR 3XXX: Pathophysiology/Pharmacology in Nursing 2

1. Please provide a description of the case studies grade and what is required for the course. Is this individual or group work, how are grades assessed, etc.

Description of the case studies:

The clinical cases will supplement the didactic material. The students would work in teams of 3-5 participants. With the case study, the students will get an exemplar and use this as a basis for a presentation. Evaluation will be standardized, see rubric below, and will be based on the presentation and content of the case study. Multi-modal presentations will be expected, i.e. PowerPoint, Video, and in-person presentation, integrating the methods to produce one, fluid demonstration.

Case studies will follow the topical outline noted in the NUR 3XXX syllabi and will be based on the Case Study Guidelines. Two case studies per semester will be expected for each student group.

Case Study Guidelines:

1. Describe the case presentation
2. Brief video of patient/patient experience with disease/disorder
 - a. Option 1: Student may use an online video link, with a patient with the disease reviewed, this will allow a 'real face' to the disease
 - b. Option 2: 1 student can play the patient, the others can be an interviewing Nurse
 - c. Goal is to have the Nursing student get to know the lived experience of the patient, for a more personalized patient/nursing experience
3. Brief pathophysiology
4. Brief video of pathophysiology
5. Assessment findings expected
6. Clinical manifestations, signs and symptoms expected
7. Usual Lab and diagnostic tests and expected (abnormal or normal) findings
8. Developmental considerations
9. Genetic considerations
10. Psychological considerations
11. Nursing Process: Assessment, priority nursing problem/diagnosis, goals, nursing interventions, collaborative interventions, evaluation methods
12. Pharmacological considerations
 - a. Gross medication classes, possible specific medications
 - b. Medication indications, therapeutic effects, mechanism of action, side effects, potential pitfalls
 - c. Medication pricing, with references from current sources
 - d. Desired medication outcomes
13. 5 NCLEX questions

Example of Patient/Case Scenario Exemplar:

Polycythemia: The patient presented in May 2013 at age 42 with a two-year history of fatigue and pruritus of his legs. He smoked one pack of cigarettes per day as he had for 25 years and had about five to six alcoholic drinks daily. Physical exam was unremarkable with no rash or palpable splenomegaly. Height was 74 inches and weight 189 pounds. Complete blood count: hemoglobin 21.9 g/dL (14.0–18.0); RBC $6.96 \times 10^6/\mu\text{L}$ (4.50–6.00); MCV fL 90.1 (80.0–99.0); WBC $10.1 \times 10^3/\mu\text{L}$ (4.5–10.8) with 71 percent neutrophils, 18 percent lymphocytes, eight percent monocytes, two percent eosinophils, and one percent basophils; platelets $154 \times 10^3/\mu\text{L}$. No significant poikilocytosis was reported. Ferritin was 9 mg/mL (26–388), iron 55 $\mu\text{g/dL}$ (65–175), total iron binding capacity 431 $\mu\text{g/dL}$ (250–450), iron saturation 13 percent (22–55), and reticulocytes 1.12 percent (0.20–2.44).

Taken From: <http://www.captodayonline.com/case-report-brief-review-diagnosing-polycythemia-vera-conventional-tools-amid-molecular-options/>

Example of Grading Rubric:

Criteria	Rating - Poor	Rating - Fair	Rating - Good	Rating - Excellent	Max. Points	Points Received
Describe the case presentation, introduce problem, group members	0	1	2	2.5	2.5	
Brief video of patient experience with disease/ disorder, engaging, informative, accurate	0	1	2	2.5	2.5	
Brief pathophysiology, accurate, descriptive	0	12	15	20	20	
Brief video of pathophysiology, engaging, informative, accurate	0	1	2	2.5	2.5	
Assessment findings expected (with this disorder)	0	7	8	10	10	
Clinical manifestations, signs and symptoms expected (with this disorder)	0	7	8	10	10	
Usual Lab and diagnostic tests and expected (abnormal or normal) findings (with this disorder)	0	5	4	5	5	
Developmental considerations (age, children, adolescent, adult, elderly)	0	2	3	5	5	
Genetic considerations (counselling, reproductive, genetic tests)	0	2	3	5	5	
Psychopathological considerations	0	12	15	20	20	
Nursing Process: Assessment, priority nursing problem/diagnosis, goals, nursing interventions, collaborative interventions, evaluation methods	0	7	8	10	10	
Pharmacological considerations: Gross medication classes, possible specific medications; Medication indications, therapeutic effects, mechanism of action, side effects, potential pitfalls; Medication pricing; Desired medication outcomes	0	2	4	5	5	
5 NCLEX questions (you can use textbooks, online resources)	0	1	2	2.5	2.5	
Total	0			100	100	