Course Name: Advanced Pathophysiology

Course Prefix: MSN

Course Number: 6210

Submitted by: Monte Roberts, monteroberts1@weber.edu

Current Date: 2/16/2015 College: Health Professions

Department: Nursing

From Term: Fall 2016

Substantive

new

Current Course Subject: N/A

Current Course Number:

New/Revised Course Information:

Subject: MSN

Course Number: 6210

Check all that apply:

This is for courses already approved for gen ed. Use a different form for proposing a new gen ed designation.

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Course Title: Advanced Pathophysiology

Abbreviated Course Title: 6210 Adv Patho

Course Type: LEC

Credit Hours:

or if variable hours: 2-3 to

Contact Hours:

Lecture: 30-45

Lab:

Other:

Repeat Information:

Limit: 0

Max Hrs: 0

Grading Mode: standard

This course is/will be:

a required course in a major program X

a required course in a minor program

a required course in a 1- or 2- year program

elective

Prerequisites/Co-requisites:

Faculty permission

Course description (exactly as it will appear in the catalog, including prerequisites):

This course is a core graduate level course. This course is designed to teach the master level nursing and nurse practitioner student frequently seen alterations in physiology. The course will focus on modifiable risk factors, exposures, physiological mutations, and presenting signs and symptoms. Students will utilize evidence-based practice and research to identify, analyze and evaluate disease pathology across the lifespan.

Justification for the new course or for changes to an existing course. (Note: Justification should emphasize academic rationale for the change or new course. This is particularly important for courses requesting upper-division status.)

Graduate nursing program accrediting bodies (ACEN & CCNE) and nurse practitioner certification testing (ANCC & AANP) requires nursing students in graduate level programs to obtain course work in graduate level pathophysiology, pharmacology and physical assessment. The course sets the foundation for future courses specifically in disease management and diagnosis within the scope of a nurse practitioner.

INFORMATION PAGE

for substantive proposals only

1. Did this course receive unanimous approval within the Department?

true

If not, what are the major concerns raised by the opponents?

2. If this is a new course proposal, could you achieve the desired results by revising an existing course within your department or by requiring an existing course in another department?

No, this a new course for a new program track, no other graduate level pathophysiology course is offered currently.

3. How will the proposed course differ from similar offerings by other departments? Comment on any subject overlap between this course and topics generally taught by other departments, even if no similar courses are currently offered by the other departments. Explain any effects that this proposal will have on program requirements or enrollments in other department. Please forward letters (email communication is sufficient) from all departments that you have identified above stating their support or opposition to the proposed course.

There is not a graduate level pathophysiology course offered on campus. Content expert collaboration and the possibility of cross listing the course with other departments in the College of Health Professions and the College of Science is an option currently being discussed.

4. Is this course required for certification/accreditation of a program?

yes

If so, a statement to that effect should appear in the justification and supporting documents should accompany this form.

5. For course proposals, e-mail a syllabus to Faculty Senate which should be sufficiently detailed that the committees can determine that the course is at the appropriate level and matches the description. There should be an indication of the amount and type of outside activity required in the course (projects, research papers, homework, etc.).

Please mail a signed approval pageto the Faculty Senate Office, MA 210J, MC 1033.

**WEBER STATE UNIVERSITY**

**SCHOOL OF NURSING**

Course Syllabus

**A. COURSE NUMBER AND NAME:**

            MSN 6210 Advanced Pathophysiology

**B. CREDIT HOURS**:

Two (2) or three (3) credit hours

**C. COURSE DESCRIPTION:**

This course is a core graduate level course. This course is designed to teach the master level nursing and nurse practitioner student frequently seen alterations in physiology. The course will focus on modifiable risk factors, exposures, physiological mutations, and presenting signs and symptoms. Students will utilize evidence-based practice and research to identify, analyze and evaluate disease pathology across the lifespan.

**D. COURSE OUTCOMES:**

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

1. Analyze the basis for pathological management of patients across the lifespan.
2. Analyze etiology and physiology associated with common disease processes and health
   1. concerns.
3. Contrast differences and similarities in how pathophysiology presentsin special
   1. populations.
4. Apprise current evidence to determine best practice across the lifespan.
5. Evaluate quality and safety standards to improve the healthcare system.
6. Calculate risk of harm to patients and providers through the evaluation of system
   1. effectiveness.
7. Diagnose pathologies related to the advanced practice nurse role.

**E. COURSE CONCEPTS:**

1. Acid-base balance
2. Cellular Regulation
3. Fluid & Electrolytes
4. Immunity
5. Inflammation
6. Intracranial Regulation
7. Metabolism

**F. TEACHING STRATEGIES:**

* Individual and Group Focused Discussion
* Group Presentation
* Selected readings
* Structure discussion & critical thinking exercises  (face-to-face & online-asynchronous)
* Scholarly assignments designed to support development of an evidence-based innovation and application
* Simulation Activities

**G.         METHODS OF EVALUATION:**

* Content Expert Group Presentation
* Course participation/preparation & responses to structured discussion & critical thinking exercises (face-to-face /online asynchronous discussions)
* Case studies
* Quizzes
* Testing
* Peer Review
* Debriefing

Grading Scale:

|  |  |  |  |
| --- | --- | --- | --- |
| 100-95% = A | 86-83%  = B | 76-73%  = C | 66-63%  = D |
| 94 90%  = A- | 82-80%  = B- | 72-70%  = C- | 62-60%  = D- |
| 89-87% = B+ | 79-77% = C+ | 69-67% = D+ | 59% and below=E |

Students must have an 80% average in this course to pass the course and continue in the nursing program. (Refer to Nursing Department Student Handbook)

To receive a grade, all course requirements must be met.

**H.        REQUIRED TEXTS:**

McCance, K. L. & Huethe, S. E. (2013). *Pathopysiology: The biological basis for disease in adults and children.* (7th Edition). St. Louis, MO: Elsevier/Mosby.

1. **COURSE FORMAT:**
2. Cellular Biology
   1. Physiology of typical cellular biology
3. Cellular Abnormality I
   1. Pathophysiology of atypical viral cell physiology:
      1. Colds, Influenza & Coughs
   2. Pathophysiology of atypical bacterial cell physiology
      1. Cocci
      2. Rods
   3. Pathophysiology of atypical fungal cell physiology
      1. Yeast Infection
4. Cellular Abnormality II
   1. Pathophysiology of cellular mutations
      1. Cancer
5. Oxygenation/Ventilation
   1. Pathophysiology of Viral Oxygen/Ventilation disease
      1. Tuberculosis
      2. Pulmonary Embolism
   2. Seasonal
      1. Allergies
   3. Chronic
      1. COPD
      2. Asthma
      3. Emphysema
6. Perfusion and Excretion I
   1. Pathophysiology of Preload, Afterload & Contractility
      1. Hypertension
   2. Pathophysiology of Ischemia
      1. Angina
7. Perfusion and Excretion II
   1. Pathophysiology of Chronic Perfusion
      1. Congestive Heart Failure
   2. Pathophysiology of Heme Abnormalities
      1. Anemia
8. Digestive
   1. Pathophysiology of Absorption Abnormalities
      1. Nausea
   2. Pathophysiology of Excretion Abnormalities
      1. Vomiting
      2. Diarrhea
   3. Pathophysiology of Dehydration
      1. Constipation
   4. Pathophysiology of Gastric Erosion
      1. GERD
      2. Peptic Ulcer
9. Metabolic I
   1. Pathophysiology of Thyroid
      1. Hypothyroidism
      2. Hyperthyroidism
   2. Pathophysiology of Diabetes
      1. Diabetes Mellitus I
      2. Diabetes Mellitus II
      3. HHNK
10. Metabolic II
    1. Pathophysiology of hormonal imbalances
       1. Hormone Replacement
    2. Physiology of hormonal inhibition
       1. Contraceptives
    3. Pathophysiology of bone absorption
       1. Osteoporosis
    4. Pathophysiology of male/female reproductive disorders
       1. Infertility
       2. Erectile Dysfunction
       3. Benign Prostate Hyperplasia
11. Immunity
    1. Pathophysiology of autoimmunity
       1. Acquired immunity
       2. Passive immunity
       3. Abnormalities in auto-immune response
       4. Pathophysiology of viral load
12. Pain
    1. Pathophysiology of pain management
       1. Central Nervous System stimulation and inhibition
13. Intracranial Regulation I
    1. Pathophysiology of neurological threshold
       1. Anxiety
       2. Psychosis
       3. Sleep Disorders
       4. ADHD
    2. Pathophysiology of depression
14. Intracranial Regulation II
    1. Pathophysiology of neurological threshold II
       1. Seizures
       2. Migraine Headaches
       3. Parkinson’s
       4. Alzheimer’s
15. Final Comprehensive

**J.        PROFESSIONAL CONDUCT:**

Students are expected to abide by the WSU student code and the Nurse Practice Act of the State of Utah. Plagiarism or any other form of cheating will result in failure of the

course and probable dismissal from the FNP program. WSU subscribes to Turnitin.com, an electronic service that verifies the originality of student work. Enrollment in this course may require you to submit some or all of your assignments to it this semester, and documents submitted to TurnItIn.com are retained anonymously, in their databases. Continued enrollment in this course constitutes an understanding of an agreement with this policy.

**K.**        **SYLLABUS DISCLOSURE STATEMENT:**

The syllabus is the governing document for this course.  Your decision to take this course amounts to your tacit consent to the conditions of this syllabus.  The professor, as well, is bound by the terms of this syllabus and may not make any significant changes, unless the class as a whole approves them.

**L.**       **SERVICES FOR STUDENTS WITH DISABILITIES:**

Services for Students with Disabilities: Any student requiring accommodations or services due to a disability must contact Services for Students with Disabilities (SSD) in room 181 of the Student Service Center.  SSD can also arrange to provide course materials (including this syllabus) in alternative format if necessary.  Disabled individuals requesting accommodations should be referred to SSD so that disability documentation can be acquired and appropriate accommodations arranged.  Please phone: 801-626-6413.