Course Syllabus

Department: Nursing

Date: 9/24/12

I. Course Prefix and Number: NUR223/BIO223

Credit Hours and Contact Hours: 3 credit hours and 3 contact hours

Course Name: Pathophysiology

Catalog Description including pre- and co-requisites:
This course is designed for students who wish to apply their knowledge of physiology to disease states occurring across the lifespan. The course will consist of a review of the normal functioning of selected body systems, and then analysis of pathological function during disease of those systems and standard treatment for these pathological conditions.

Prerequisite: BIO 171 and BIO 172 with a B grade or higher. NUR223/BIO223 course material builds on prior Anatomy and Physiology course content. A strong correlation exists between mastery of BIO171 and BIO172 and success in NUR223/BIO223.

Relationship to Academic Programs and Curriculum including SUNY Gen Ed designation if applicable:
Students who are pursuing studies in medical fields such as nursing must learn to think critically about the functioning of the human body. In required courses such as anatomy and physiology, the tools to understand basic homeostasis are presented. This course is designed to take students beyond normal functioning and teach them about altered function. Any student who desires to be an effective practitioner in the medical field will benefit from a deeper understanding of pathological processes and their treatment. This course is designed to give them the tools to do so.

II. Course Student Learning Outcomes:
By the end of the course, the student will:
1. Demonstrate knowledge of basic concepts of pathophysiology.
2. Demonstrate knowledge of the causes, pathophysiological processes and treatment of commonly occurring selected disease entities across the life span encountered in clinical practice.

College Learning Outcomes Addressed by the Course:

<table>
<thead>
<tr>
<th>Reading</th>
<th>Ethics/Values</th>
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<tr>
<td>Critical Thinking</td>
<td>Information Resources</td>
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<td>Computer literacy</td>
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III. Assessment Measures
The college and student learning outcomes will be assessed utilizing the following measures:

<table>
<thead>
<tr>
<th>College Learning Outcomes(s)</th>
<th>Specific assessment measure(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reading</td>
<td>Tests and Written assignments</td>
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<td>Critical thinking</td>
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<tr>
<td>Computer literacy</td>
<td>Written assignments</td>
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<tr>
<td>Ethics and Values</td>
<td>Class discussions</td>
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<tr>
<td>Information resources</td>
<td>Shared Resource Assignment</td>
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IV. Instructional Materials and Methods

Course Materials:
- **Required textbook**: Identified Pathophysiology text
- **Optional texts**:
  - Anatomy of Physiology book of student choice
  - Drug reference text of student choice

Methods of Instruction:
- Lectures, assigned readings, case studies, internet research, guided classroom discussions

V. General Outline of Topics Covered:
1. Basic concepts of pathophysiology

2. Normal anatomy physiology of the following systems:
   a. Neurological system
   b. Endocrine system
   c. Hematologic system
   d. Cardiovascular system
   e. Pulmonary system
   f. Renal system
   g. Musculoskeletal
   h. Gastrointestinal system

3. In depth study of pathophysiological processes commonly occurring in the above listed body systems.

4. In depth examination of the pathophysiology of selected commonly occurring disease entities across the lifespan as they relate to body systems listed in #2, their effect on bodily function, and associated treatment.