

NEW COURSE PROPOSAL

DATE NOVEMBER 30, 2005
PROGRAM AREA NURSING AND BIOLOGY

1. Catalog Description of the Course. *[Follow accepted catalog format.]*

Prefix NRS Course# 306 Title PATHOPHYSIOLOGY Units (3)

3 hours lecture per week

☒ Prerequisites BIOL 210 and BIOL 211

☒ Corequisites Generic students: NRS 220 and NRS 221: Theory is exercised in corequisite courses and content linked. RN- BSN students: None

Description

NRS 306. PATHOPHYSIOLOGY (3)

Three hour lecture per week

Examines related pathophysiological disruptions to normal system functioning and the impact of these alterations on the individual throughout the life span. Provides rationale for nursing interventions for common health problems involving the integumentary, sensory, musculoskeletal, gastrointestinal, cardiovascular, endocrine, respiratory, hematological, renal/genitourinary, and neurological body systems. Same as BIOL 306

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|---|---|---|
| <input type="checkbox"/> Gen Ed | <input type="checkbox"/> Graded CR/NC | <input type="checkbox"/> Repeatable for up to units |
| Categories | | |
| <input type="checkbox"/> Lab Fee Required | <input checked="" type="checkbox"/> A - Z | Total Completions Allowed 1 |

2. Mode of Instruction.

| | Units | Hours per Unit | Benchmark Enrollment | Graded Component | CS # (filled in by Dean) |
|------------|-------|----------------|----------------------|-------------------------------------|-----------------------------|
| Lecture | 3 | 1 | 40-50 | <input checked="" type="checkbox"/> | _____ |
| Seminar | _____ | _____ | _____ | <input type="checkbox"/> | _____ |
| Laboratory | _____ | _____ | _____ | <input type="checkbox"/> | _____ |
| Activity | _____ | _____ | _____ | <input type="checkbox"/> | _____ |

3. Justification and Learning Objectives for the Course. (Indicate whether required or elective, and whether it meets University Writing, and/or Language requirements) *[Use as much space as necessary]*

This content is considered essential to professional nursing practice and is recommended as part of any baccalaureate program seeking accreditation through The Commission on Collegiate Nursing Education (CCNE), accrediting agency of the American Association of Colleges of Nursing (AACN).

This is a required course for the BS in Nursing program.

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

- 1 Compare the normal physiological processes with the altered physiological processes
- 2 Cite the condition/disease process causing pathophysiological dysfunction
- 3 Explain mechanisms for the pathophysiologic alterations of major physiologic systems
- 4 Cite the usual etiology, predisposing factors, signs and symptoms, and diagnostic measures for the conditions/disease entities.
- 5 Describe and recognize major systematic pathophysiological reactions in the body
- 6 Identify differences of pathophysiologic alterations in adults and children
- 7 Cite the usual therapeutic approach used to eradicate or ameliorate the disease process
- 8 State the common assessment findings and goals for monitoring the response to therapeutic measures.
- 9 State the common nursing interventions used to manage the symptoms or effect of the dysfunctions and the

pathophysiological rationale for their use

4. Is this a General Education Course YES ☐ NO ☒
If Yes, indicate GE category and attach GE Criteria Form:

A (English Language, Communication, Critical Thinking)

A-1 Oral Communication ☐

A-2 English Writing ☐

A-3 Critical Thinking ☐

B (Mathematics, Sciences & Technology)

B-1 Physical Sciences ☐

B-2 Life Sciences – Biology ☐

B-3 Mathematics – Mathematics and Applications ☐

B-4 Computers and Information Technology ☐

C (Fine Arts, Literature, Languages & Cultures)

C-1 Art ☐

C-2 Literature Courses ☐

C-3a Language ☐

C-3b Multicultural ☐

D (Social Perspectives) ☐

E (Human Psychological and Physiological Perspectives) ☐

UD Interdisciplinary ☐

5. Course Content in Outline Form. *[Be as brief as possible, but use as much space as necessary]*

- I. Concepts of Disease Process Throughout the Lifespan
 - A. Concepts of Health and Disease
 - B. Concepts of Altered Health in Children
 - C. Concepts of Reproductive Health
 - C. Concepts of Altered Health in Older Adults
- II. The Cell
 - A. Cellular Biology
 - B. Genes and Genetic Disease
 - C. Altered Cellular and Tissue Biology
 - D. Fluids and Electrolytes, Acids and Bases
- III. Mechanisms of Self-Defense
 - A. Immunity
 - B. Inflammation
 - C. Hypersensitivities, Infection and Immunodeficiencies
 - D. Stress and Disease
- IV. Cellular Proliferation: Cancer
 - A. Biology of Cancer
 - B. Tumor Spread and Treatment
 - C. Alterations in WBC's and Lymphoid Tissue
 - D. Cancer in Children
- V. Circulation, Blood Coagulation, Blood Flow, and Blood Pressure
 - A. Alterations in Cardiac Function
 - B. Alterations in Hemostasis and Blood Coagulation
 - C. Alterations in Blood Flow
 - D. Alterations in Blood Pressure
 - E. Alterations in Cardiac Function
- VI. Oxygen Transport, Ventilation and Gas Exchange
 - A. Alterations in Ventilation
 - B. Alterations in Gas Exchange
 - C. Alteration in Oxygen Transport
- VII. Cognition, Consciousness, Sensory and Motor Function
 - A. Alterations in Cognitive Function
 - B. Alterations in Consciousness. Sleep and Perception
 - C. Alterations in Visual and Auditory Function
 - D. Alterations in Sensory Function
 - E. Alterations in Motor Function
- VIII. Metabolism, Digestion, and Elimination
 - A. Alterations Gastrointestinal Function
 - B. Alterations in Hepatobiliary and Exocrine Pancreatic Function
 - C. Alterations in Endocrine Control, Growth and Metabolism
 - D. Alterations in Renal Function and Elimination
 - E. Alteration in the Integumentary System
 - F. Alterations in Nutrition and Hematopoietic Function
- IX. Movement and Skeletal Function
 - A. Alterations Muscular Function
 - B. Alterations in the Skeletal Function

Does this course overlap a course offered in your academic program? YES ☐ NO ☒

If YES, what course(s) and provide a justification of the overlap?

Does this course overlap a course offered in another academic area? YES ☐ NO ☒

If YES, what course(s) and provide a justification of the overlap?

Signature of Academic Chair of the other academic area is required on the consultation sheet below.

6. Cross-listed Courses (Please fill out separate form for each PREFIX)

List Cross-listed Courses

NRS 306

BIOL 306

This course covers human physiology in diseased state. The contents of this course are based on human physiology in normal state. Without knowledge and review of human physiology in normal state, it is impossible to discuss physiology in diseased state. Therefore, the contents of the course from II to IX listed above are all related to human physiology in normal and alternate states. Because of the nature of this course, it needs to be a cross-listed course between Biology (normal state) and Nursing (diseased state).

Signature of Academic Chair(s) of the other academic area(s) is required on the consultation sheet below

Department responsible for staffing: Nursing and Biology

7. References. *[Provide 3 - 5 references on which this course is based and/or support it.]*

Huether, S.E. & McCance K. L., (2003). Understanding pathophysiology (3rd ed), St. Louis: Mosby.

Recommended Text(s)

Kee, J, & Hayes, E. (2000). Pharmacology: A nursing process approach (3rd Ed.). Philadelphia: W.B. Saunders.

Porth, C.M., (2002). Pathophysiology: Concepts of altered states (6th ed.), Philadelphia: Lippincott and Williams and Wilkins.

Price, S. A. & Wilson L. M. (2003) Pathophysiology: Clinical concepts of disease processes (6th ed.), St. Louis: Mosby.

8. List Faculty Qualified to Teach This Course.

Nursing and Biology faculty

9. Frequency.

a. Projected semesters to be offered: Fall ☒ Spring ☒ Summer ☐

10. New Resources Required. YES ☐ NO ☒

If YES, list the resources needed and obtain signatures from the appropriate programs/units on the consultation sheet below.

a. Computer (data processing), audio visual, broadcasting needs, other equipment)

b. Library needs

c. Facility/space needs

11. Will this new course alter any degree, credential, certificate, or minor in your program? YES ☐ NO ☒

If, YES attach a program modification form for all programs affected.

Barbara Thorpe/Ching-Hua Wang

Proposer of Course

10/25/2005

Date

Approvals

Program Chair

Date

Curriculum Committee Chair

Date

Dean

Date