



## INDIANA UNIVERSITY

SCHOOL OF NURSING  
IUPUI

February 18, 2009

Dr. Sherry Queener  
IUPUI Graduate Office  
UN 205  
Indianapolis, Indiana 46202

Dear Dr. Queener,

On behalf of the faculty of Indiana University I am pleased to submit the attached cluster of new and revised course materials for a new graduate program offering in the Indiana University School of Nursing. Under separate cover I am sending you a new program proposal prepared according to the Commission on Higher Education Guidelines for new programs. In this proposal the faculty are requesting approval for a new program and seven new courses to support the curriculum. Additionally the program includes a request to revise a currently approved course offering. Students will also have the opportunity in this program to choose an elective from existing graduate course offerings in nursing or a related field.

The Doctor of Nursing Practice (DNP) is envisioned by the American Association of the Colleges of Nursing (AACN) as the terminal *practice* degree for the profession by the year 2015. The AACN proposes a distinction between the DNP as a *practice doctorate* that would prepare nurses for scholarly practice as clinical and health system experts from the *PhD* that would prepare *researchers and scientists* to build the body of knowledge.

The new proposed Indiana University School of Nursing Doctor of Nursing Practice (DNP) is designed to be a post-MSN 37 credit hour practice-focused professional doctorate. Graduates of the program are prepared to assume leadership positions in nursing and health care, both at system and direct patient care levels. Graduates will contribute to quality improvement and patient safety through systems thinking, reflective practice, informatics, translation science, and evidence-based clinical practice. Holders of the DNP degree may seek careers in primary health care, complex health care systems, nursing informatics, patient safety, and in clinical nursing education.

The IUSON Graduate Curriculum Committee has approved the following thirty-seven credit hours (post- masters MSN) curriculum. The faculty have developed 7 new course offerings to support the program. In addition, current approved nursing graduate level courses are being incorporated into the DNP curriculum, and one (1) course that is a part of the new curriculum is being submitted for a course revision approval.

The required curriculum for the Clinical Doctorate of Nursing Practice program is distributed as follows:

- **I631 Clinical Information Systems** (3 credits)
- **D751 Knowledge Complexity** (3 credits)
- **D735 Clinical Epidemiology and Statistics in Nursing** (3 credits)
- **D751 Relationship-Centered Leadership in Complex Systems** (3 credits)
- **D615 Health Care Outcomes and Decision Making** (3 credits)
- **D743 Influencing Public Health Policy** (3 credits)
- **D744 Strategic Resource Management in Nursing and Health Systems** (3 credits)
- **D736 Inquiry I: Evidence-based Research and Translation Science** (3 credits)
- **D737 Inquiry II: Evidence-based Research and Translation Science** (3 credits)
- **D749 DNP Practicum** (1 -3 credits) *A total of 7 credit hours of practicum course work will be require of students to meet the 1000 post baccalaureate practice hour requirement for the DNP degree. Clock hour to credit hour ratio: 5 clock hours to one credit hour per week (total 75 clock hours per credit per semester)*
- **Elective** (3 credits)

Of the courses listed above the following courses are being submitted as new course request offerings. Syllabi and completed new course requests are attached:

- **D735 Clinical Epidemiology and Statistics in Nursing** (3 credits)
- **D743 Influencing Public Health Policy** (3 credits)
- **D736 Inquiry I: Evidence-based Research and Translation Science** (3 credits)
- **D737 Inquiry II: Evidence-based Research and Translation Science** (3 credits)
- **D744 Strategic Resource Management in Nursing and Health Systems** (3 credits)
- **D749 DNP Practicum** (1 -3 credits) *A total of 7 credit hours of practicum course work will be require of students to meet the 1000 post baccalaureate practice hour requirement for the DNP degree. Clock hour to credit hour ratio: 5 clock hours to one credit hour per week (total 75 clock hours per credit per semester)*
- **D615 Health Care Outcomes and Decision Making** (3 credits) *this course will be team taught with faculty from SPEA and currently exists on the books as H615 in SPEA. We are requesting a nursing course number so that it may be cross-listed with SPEA.*

The following course is being submitted due to a name change and other revisions:

- **D751 Relationship-Centered Leadership in Complex Systems** (3 credits)

Thank you for your attention; review and processing of these course requests with the Graduate Affairs Committee.

Sincerely,



Daniel J Pesut PhD RN PMH-CNS-BC, FAAN  
Professor and Associate Dean for Graduate Programs

New Course Request

Indiana University

IUPUI

Campus

Check Appropriate Boxes: Undergraduate credit [ ] Graduate credit [x] Professional credit [ ]

- 1. School/Division Nurs/Graduate 2. Academic Subject Code
3. Course Number D735 (must be cleared with University Enrollment Services) 4. Instructor TBA
5. Course Title Clinical Epidemiology and Statistics in Nursing
Recommended Abbreviation (Optional) Epi-Stats
6. First time this course is to be offered (Semester/Year): Spring 2010
7. Credit Hours: Fixed at 3 or Variable from to
8. Is this course to be graded S-F (only)? Yes No X
9. Is variable title approval being requested? Yes No X
10. Course description (not to exceed 50 words) for Bulletin publication: Providing students with intermediate epidemiologic concepts of populations and using health research is the focus. Principles and methods of data analysis central to understanding health-related indicators for population health management will be used. Students will be prepared to function as members of a research team.

- 11. Lecture Contact Hours: Fixed at Distance Accessible 3 or Variable from to
12. Non-Lecture Contact Hours: Fixed at or Variable from to
13. Estimated enrollment: 20 of which 100 percent are expected to be graduate students.
14. Frequency of scheduling: Yearly Will this course be required for majors? yes
15. Justification for new course: Distance course offering for doctoral students for combined epidemiology & statistics
16. Are the necessary reading materials currently available in the appropriate library? N/A
17. Please append a complete outline of the proposed course, and indicate instructor (if known), textbooks, and other materials. Attached
18. If this course overlaps with existing courses, please explain with which courses it overlaps and whether this overlap is necessary, desirable, or unimportant. See letter from Public Health attached
19. A copy of every new course proposal must be submitted to departments, schools, or divisions in which there may be overlap of the new course with existing courses or areas of strong concern, with instructions that they send comments directly to the originating Curriculum Committee. Please append a list of departments, schools, or divisions thus consulted.

Submitted by: [Signature] Date 2/19/09
Approved by: [Signature] Date 2/19/09
Department Chairman/Division Director Dean
Dean of Graduate School (when required) Chancellor/Vice-President
University Enrollment Services

After School/Division approval, forward the last copy (without attachments) to University Enrollment Services for initial processing, and the remaining four copies and attachments to the Campus Chancellor or Vice-President.



# INDIANA UNIVERSITY

DEPARTMENT OF PUBLIC HEALTH

School of Medicine

January 16, 2009

Daniel J. Pesut, PhD, RN  
Professor and Associate Dean for Graduate Programs  
Indiana University School of Nursing  
1111 Middle Drive Nu 136  
Indianapolis, In 46202

Dear Dr. Pesut,

I am writing to express my support for your new course proposal: NURS D735 Clinical Epidemiology and Statistics: Epidemiology in Nursing. While this course is similar to graduate courses offered by the IUSM Department of Public Health, the unique feature of NURS D735 is its distance accessibility. At this time, the MPH Program does not offer its epidemiology courses via distance education.

As the IU School of Nursing moves forward with its proposal for the Doctorate of Nursing Practice (DNP), it will be necessary to include NURS D735 in the curriculum to meet the content essentials suggested by the American Association of Colleges of Nursing. This course will prepare nursing students to function as a member of a research team and accurately interpret results for clinical applications in nursing.

I support the development of this new course for DNP students in the IU School of Nursing.

Sincerely,

G. Marie Swanson, PhD, MPH  
Department of Public Health Chair

## **NURS D735 Clinical Epidemiology and Statistics: Epidemiology in Nursing**

Course information | Faculty | Description | Course competencies | Topical  
Outline | Texts/readings | Teaching strategies | Evaluation

### **Course information**

- 3 credit hour course [distance accessible]
- Placement in curriculum: Post masters and admission to DNP
- Co-requisites: D749 DNP Practicum (1 credit)

**Faculty:** TBA

### **Course Description**

Providing students with intermediate epidemiologic concepts of populations and biostatistical techniques for understanding and using health research is the focus. Principles and methods of data analysis central to understanding health-related indicators for population health management will be used. Students will be prepared to function as members of a research team.

### **Course Competencies**

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

1. Identify a broad range of sources of data applicable to a specific question/problem;
2. Determine the strengths and weaknesses of the data sources;
3. Select appropriate epidemiological techniques for addressing question/problem of interest;
4. Use epidemiological databases to explore risk factors and health outcome relationships;
5. Demonstrate the ability to critically evaluate health and epidemiological literature;
6. Demonstrate the ability to appropriately formulate research hypotheses and use biostatistical methods to test hypotheses;
7. Accurately interpret results for clinical applications;
8. Understand advanced issues related to clinical trials, including pharmacological risk, product safety, and pharmaco-vigilance; and
9. Understand effective ways to explain the results of health and epidemiological studies to various audiences.

### **Topical Outline**

1. History and scope of epidemiology

2. Practical applications of epidemiology
  - a. Applications for the assessment of the health status of populations and the delivery of health services
  - b. Applications relevant to disease etiology
3. Descriptive epidemiology: person, place, and time
4. Biostatistical measures of morbidity and mortality
5. Sources of data for use in epidemiology
6. Study designs
  - a. Ecologic, cross-sectional, and case-control
  - b. Cohort
  - c. Experimental
7. Measure of effects
8. Data interpretation issues
  - a. Internal validity
  - b. External validity
9. Risk assessment/adjustment
  - a. Screening for disease
  - b. Measures of the validity of screening tests
  - c. Sensitivity and specificity
10. Epidemiology
  - a. Infectious disease
  - b. Work and environment
  - c. Molecular and genetic
  - d. Psychologic, behavioral, and social

### **Required Texts and other Resources**

Friis, R. H., & Sellers, T. A. (2009). *Epidemiology for public health practice* (4<sup>th</sup> ed.).

Boston, MA: Jones and Bartlett.

Gravetter, F. J., & Wallnau, L. B. (2007). *Statistics for the behavioral sciences* (7<sup>th</sup>

ed.). Belmont, CA: Thompson/Wadsworth. (Students should have this hardback

book from R505.)

Harris, M., & Taylor, G. (2007). *Medical statistics made easy*. London, UK: informa

Healthcare. (Students may have this paperback book from R590.)

### Teaching Strategies

Web-based interaction using Adobe Acrobat Connect  
Assigned readings  
Forum postings  
Class participation  
Research critiques  
Population-focused, health management project  
Oral presentations to classmates and clinical partners

### Evaluation and Grading

There are several evaluation methods for this course. The course grade will be calculated in consultation with the clinical mentor and based on the School of Nursing grading scale:

- |  |     |
|--|-----|
| 1. Class participation and forum postings (graded by rubric) | 10% |
| 2. Research critiques  | 20% |
| 3. Biostatistical problems                                   | 15% |
| 4. Project   | 40% |
| 5. Oral presentations  | 15% |

Letter grades are calculated based on the School of Nursing grading scale below. Attainment of an average of B- is required to successfully pass the course.

A+ 97 - 100    B + 87 - 89    C+ 77 - 79    D+ 67 - 69    F Below 60

A 93 - 96    B 83 - 86    C 73 - 76    D 63 - 66

A- 90 - 92    B- 80 - 82    C- 70 - 72    D- 60 - 62

### Academic Integrity

This course complies with Indiana University School of Nursing policies and standards, and those delineated in the *IU Code of Student Rights, Responsibilities, and Conduct*:

<http://www.dsa.indiana.edu/Code/> and  
[http://www.dsa.indiana.edu/Code/Part\\_2acad.html](http://www.dsa.indiana.edu/Code/Part_2acad.html).

**Americans with Disabilities Act**

*If you need any special accommodations due to a disability, please contact Adaptive Educational Services at (317)-274-3241. The office is located in CA 001E.*