

FLORIDA ATLANTIC UNIVERSITY™

Graduate Programs—COURSE CHANGE REQUEST

UGPC APPROVAL _____
 UFS APPROVAL _____
 SCNS SUBMITTAL _____
 CONFIRMED _____
 BANNER POSTED _____
 CATALOG _____

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| DEPARTMENT NAME: NURSING | COLLEGE OF: NURSING |
| COURSE PREFIX & NUMBER: NGR 6673 | CURRENT COURSE TITLE: EPIDEMIOLOGY FOR ADVANCED NURSING PRACTICE |

CHANGE(S) REQUESTED

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| <p>SHOW "X" IN FRONT OF OPTION</p> <p>CHANGE CREDITS FROM _____ TO: _____</p> <p>CHANGE GRADING FROM _____ TO: _____</p> <p>CHANGE PREREQUISITES TO: _____</p> <p>CHANGE MINIMUM GRADE TO: _____</p> <p>CHANGE COREQUISITES TO: _____</p> <p>CHANGE OTHER REGISTRATION CONTROLS TO: _____</p> <p>OTHER _____</p> | <p>SHOW "X" IN FRONT OF OPTION</p> <p>CHANGE PREFIX FROM _____ TO: _____</p> <p>CHANGE COURSE NO. FROM NGR 6930 TO: NGR 6673</p> <p>NEED REGULAR ASSIGNED STATE NUMBER: THIS COURSE HAS BEEN USED 3 TIMES ALREADY.</p> <p>CHANGE TITLE TO: NO CHANGE</p> <p>CHANGE DESCRIPTION TO: NO CHANGE</p> |
| CHANGES TO BE EFFECTIVE (TERM): SUMMER/FALL 2011 | Attach syllabus for ANY changes to current course information. |
| Will the requested change(s) cause this course to overlap any other FAU course(s)? If yes, please list course(s). <p style="text-align: center;">NO</p> | Any other departments and/or colleges that might be affected by the change(s) must be consulted. List entities that have been consulted and attach written comments from each. |

TERMINATE COURSE, EFFECTIVE (GIVE LAST TERM COURSE IS TO BE ACTIVE):

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| Faculty Contact, Email, Complete Phone Number: Marguerite J. Purnell, PhD, RN; Chair, Committee on Programs, mpurnell@fau.edu 561-297-3262 *This is a resubmission of the form. The original was lost. |
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| <p>SIGNATURES</p> <p><i>Approved by:</i></p> <p>Department Chair: _____</p> <p>College Curriculum Chair: <i>M. Purnell</i></p> <p>College Dean: <i>Marlaene Smith</i></p> <p>UGPC Chair: _____</p> <p>Dean of the Graduate College: _____</p> | <p><i>Date:</i></p> <p>_____</p> <p><i>3/14/2011</i></p> <p>_____</p> <p><i>3/14/2011</i></p> <p>_____</p> <p>_____</p> | <p>SUPPORTING MATERIALS</p> <p>Syllabus—must include all criteria as detailed in UGPC Guidelines.</p> <p>To access Guidelines and download this form, go to: http://www.fau.edu/graduate/facultyandstaff/programs/committee/index.php</p> <p>Written Consent—required from all departments affected.</p> |
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Email this form and syllabus to diamond@fau.edu one week **before** the University Graduate Programs Committee meeting so that materials may be viewed on the UGPC website by committee members prior to the meeting.

**FLORIDA ATLANTIC UNIVERSITY
CHRISTINE E. LYNN COLLEGE OF NURSING
COURSE OVERVIEW
SUMMER, 2009**

- COURSE NUMBER:** NGR 6930
- CREDIT HOURS:** 3 credits
- COURSE TITLE:** EPIDEMIOLOGY FOR ADVANCED NURSING PRACTICE
- COURSE SCHEDULE:** eCollege
- PLACEMENT IN CURRICULUM:** GRADUATE PREREQUISITE FOR DOCTOR OF NURSING PRACTICE PROGRAM AND ADMINISTRATORS
- PREREQUISITE:** MASTERS PREPARED NURSE PRACTITIONERS OR ADVANCED ADMINISTRATORS
- FACULTY:** KARLETTE J. PECK, MPH, PA.
Ph.D. Candidate in Public Health
(Global Communicable Diseases)
Physician's Assistant-Epidemiologist
OFFICE: Virtual/On-line
E-MAIL: kpeck5@fau.ed
- OFFICE HOURS:** By mutual arrangement of student and instructor.
Appointments for phone consultation should be made via email. Virtual office hours and/or special chats will be announced.
The instructor will respond to email questions or concerns within 24-48 hours, unless otherwise indicated.
- COURSE DESCRIPTION:** This course is designed to teach Masters prepared nurse practitioners and administrators about the science of Epidemiology. Lessons are designed to provide the student with the critical epidemiological tools needed for the advanced practice of nursing.
- COURSE OBJECTIVES:** Upon completion of NGR 6930, the student will be able to:
1. Explore and develop innovative images of advanced nursing practice in Epidemiology:

- List benefits of understanding population health for advanced practice nurses.
- Describe population health and understand the effects of population health on individuals.

2. Advance the discipline of nursing through practice and research:

- Demonstrate skill in analyzing population health using principles of epidemiology.
- Demonstrate understanding of various epidemiologic methods of investigating health issues.
- Understands strengths and weakness of various epidemiologic study methods and designs.

3. Demonstrate synthesis of advanced practice nursing role:

- Apply epidemiological analysis related to a specific health problem.
- Learn and demonstrate critical review and analysis of population health through the use of statistics and research into health issues affecting populations.
- Demonstrates the ability to critically review health literature relating to advanced nursing practice

4. Incorporate and understanding of wholeness of persons connected with others and the environment through caring.

- Examining issues related to scholarly study of nursing practice outcomes and measures using epidemiology concepts.
- Understanding of the “patient” as the community applied to the advanced practice of nursing

5. Actualize advanced practice nursing as nurturing the wholeness of others through caring.

- Applying principles of research in the design and conduct of nursing health issues of concern to others.
- Integrating concepts of caring in the study of phenomenon of concern to nursing

TEACHING METHODS: Web-based in eCollege. The course is organized into Units and Weeks that coincide with the chronological weeks in this course. Each week which contains the reading assignments, PowerPoint lectures, required assignments and links to required and recommended readings. Cases studies, study critique, special chats, on-line course discussions or additional activities will be announced in advance by the instructor.

EVALUATION METHODS:

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| Chapter Assignments | 20% |
| Unit 1 Exam | 10% |
| Unit 2 Exam | 10% |
| Unit 3 Exam | 10% |
| Unit 4 Exam | 10% |
| Article Critique I (Analytic/Observational Study) | 20% |
| Field Outbreak Investigation (Case Study) | 20% |

GRADING SCALE: The following grading scale has been approved 1-2007. **A grade below B is not passing in the Nursing Graduate Program.**

93-100 = A
 90-92 = A-
 87-89 = B +
 83-86 = B
 80-82 = B-
 77-79 = C +
 73-76 = C
 70-72 = C-
 60-69 = D
 0 – 59 = F

REQUIRED TEXTS:

Merrill, R.M & Timmereck, T. C. (2006). *Introduction to Epidemiology*, 4th Edition. Jones and Bartlett. ISBN-13: 9780763735821 or ISBN-10: 0763735825

RECOMMENDED TEXTS:

Gordis, L. (2004). *Epidemiology*. 3rd edition. Elsevier Saunders, Inc.

COURSE SPECIFIC LITERATURE:

Books:

Beneson, A.S. (ed). (2007). *Control of Communicable Diseases in Man*. 18th Edition. American Public Health Association, Washington, D.C.

Friedman, G. D. (1980). *Primer of Epidemiology*. 5th Edition. McGraw Hill, Inc. ISBN-13: 9780071402583

Gordis, L. (2004). *Epidemiology*. 3rd Edition. Elsevier Health Sciences.

Gregg, M. B., (Eds.). (2008). *Field Epidemiology*. 3rd Edition. Oxford University Press, New York, New York. ISBN-13: 9780195313802

Hennekens, C. H. & Buring, J. F. (1987). *Epidemiology in Medicine*. 1st Edition. Little, Brown and Company. ISBN-13: 9780316356367

Kelsey, J. L., Whittemore, A. S., Evans, A. S. & Thompson, W. D. (1996). *Methods in Observational Epidemiology*. 2nd Edition. Oxford University Press. ISBN-13: 9780195083774

Last, J. M. (2001). *A Dictionary of Epidemiology*. 4th Edition. Oxford University Press. ISBN-13: 9780195141696.

Lilienfeld, D. E. & Stolley, P. D. (1994). *Foundations in Epidemiology*. 3rd Edition. Oxford University Press. ISBN-13: 9780195050363

Rothman, K.J.J. (2002). *Epidemiology: An Introduction*. 1st Edition. Oxford University Press, U.S.A. ISBN-13: 9780195135541.

Stolley, P. D. & Lasky, T. (1995). *Investigating Disease Patterns: The Science of Epidemiology*. Scientific American Library. ISBN-13: 9780716750581

Teutsch, S. M. & Churchill, R. E. (2000). *Principles and Practice of Public Health Surveillance*. 2nd Edition. Oxford University Press. ISBN-13: 9780195138276

Useful websites:

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| International Association for Food Protection | www.foodprotection.org |
| Centers for Disease Control | www.cdc.gov |
| World Health Association | www.who.org |
| Florida Department of Health | www.doh.state.fl.us |
| Florida Department of Health Bureau of Epidemiology | www.doh.state.fl.us/disease_ctrl/epi/index.html |
| National Association of County and City Health Officials | www.naccho.org |
| International Epidemiological Association | www.dundee.ac.uk/iae |
| American Public Health Association | www.apha.org |
| Florida Public Health Association | www.fpha.org |
| Healthy People 2010 | www.healthypeople.gov |
| National Center for Health Statistics | |

www.cdc.gov/nchs

COURSE POLICIES & GUIDELINES:

Course syllabus can be changed by the instructor as needed. Students will be notified in advance via eCollege of any changes to the schedule or the syllabus.

Students are reminded that the College of Nursing Professional Statement and University Policies are related to academic integrity applies to all tests, written assignments, verbal communications and other course activities. All policies in the college and university catalogues apply to this course.

1. All course requirements and objectives must be met in order to obtain a passing grade.
2. The student is expected to log on to the course website at least three times weekly to obtain the reading materials and check on course updates and announcements.
3. The student is expected to turn in assignments using eCollege on or before the due date assigned.
4. The student must complete all scheduled examinations.
5. All assignments submitted will be scanned by a plagiarism program. As such, assignments must be submitted through the course website **Drop Box** rather than as email attachments.
6. All assignments will be completed in APA format: (Publication Manual of the American Psychological Association, 5th edition; ISBN 1-557987912 or 1-557988192).
 - Margins: at least 1” (one inch)
 - Page size: 8.5”X 11”
 - Font: Preferred 12-point Times Roman Numeral. Courier is also acceptable.
 - Spacing: Double-spaced
 - Numbering: Number all pages in the upper right hand corner of each page.
7. All students must have an e-mail address and regular access to a computer.

COLLEGE OF NURSING POLICIES:

1. The University policy regarding academic integrity is enforced in this course. For further information, refer to the Graduate Student Handbook, Florida Administrative Code, Section 6C5-4.001 Honor Code, Academic Irregularities, and Students’ Academic Grievances <http://www.fau.edu/gr-cat/acadpolicies.pdf>. Adherence to the Honor Code is a professional competency and an expectation of all students. ANY act of dishonesty that violates the honor code and misrepresents your efforts or ability is grounds for immediate failure of this course.
2. The incomplete grad policy is also enforced. For further information refer to the Graduate Student Handbook, Academic Policies & Regulations, Incomplete Grades <http://www.fau.edu/gr-cat/acadpolicies.pdf>.
3. The Americans with Disabilities Act (ADA) requires the provision of reasonable accommodations to any individual who advises faculty and the University of a

documented physical or mental disability. If you require special accommodations due to such a disability to properly execute course work, you must register with the FAU Office of Students with Disabilities (OSD) located in the Boca Raton campus library, room 175, phone 561-297-3880 or in Davie, MODI, phone, 954-236-1222. Please arrange a meeting with your course faculty. All OSD procedures must be followed for you to receive the special accommodations.

4. The Christine E. Lynn College of Nursing may use students' course-related materials for legitimate institutional purposes, such as accreditation, university review process, or state board of nursing review process, etc. In such cases, the materials will be used within the college and university.

5. In order to enhance and maintain a productive atmosphere for education, personal communication devices such as pagers, beepers and cellular telephones are to be disabled in class sessions.

COURSE ASSIGNMENTS:

Unit Exams: There will be four (4) exams given during this course, corresponding to each Unit of the course. Each exam will cover approximately one-quarter of the course material and readings. Exams will be a combination of multiple choice, short answer, data analysis and interpretation, case study and essay questions.

Article Critique: Students will pick a scientific journal article of an analytic/observational study from a small sample of studies identified by the instructor. Students will critique the study according to guidelines given in advance by the instructor. Critiques will be graded based on clarity and the students' ability to synthesize their understanding of epidemiologic study design concepts and course materials into the analysis and interpretation of their chosen study and its findings and validity. Detailed requirements will be posted on the course website well in advance of the due date.

Outbreak Investigation: Students will be assigned to a group. The group will work collaboratively to analyze data from a field investigation of an outbreak. Students will be evaluated based on their ability to complete the steps required for a field investigation and for outbreak control, as well as their ability to work collaboratively as a team. Specific requirements for this activity will be posted on the course website in advance of the due date.

TOPICAL OUTLINE:

Unit One

1. Introduction to Epidemiology (Chapter 1-3 and other assigned materials)
 - a. Basic Concepts of epidemiology
 - b. Historic evolution of epidemiology
 - c. Practical concepts in epidemiology

2. General health and population indicators (Chapter 6 and other assigned materials)
 - a. Morbidity and mortality statistics
 - b. Current health and population indicators
- Unit Two**
3. Descriptive Epidemiology (Chapter 4 & 5 and other assigned materials)
 - a. Descriptive study designs and data
 - b. Measures of statistical association
 - c. Orientation of data by person, place and time
- Unit Three**
4. Analytic Epidemiology (Chapter 7 and other assigned materials)
 - a. Observational studies; cohort, case-control and mixed study designs.
 - b. Bias, methods of control and effect modifiers
 - c. Strengths and weaknesses of observational study designs
 - d. Ethical issues.
 5. Experimental Epidemiology (Chapter 8 and other assigned materials)
 - a. Study design
 - b. Randomization, blinding and other study design issues.
 - c. Strengths and weaknesses of experimental designs
 - d. Ethical issues.
- Unit Four**
6. Statistical and Causal Association (Chapter 9 and other assigned materials)
 - a. Hypothesis development and testing
 - b. Bias and Confounding
 - c. Web of causation
 7. Field Epidemiology and Screening (Chapter 10 and other assigned materials)
 - a. Steps in field investigation
 - b. Statistical analysis and causation
 - c. Screening and disease detection and sensitivity and specificity
 8. Chronic Disease Epidemiology and other Special Epidemiology Fields (Chapter 11 and other assigned course materials)
 - a. Methods of investigation
 - b. Causation and risk factors
 - c. Priorities in prevention and control

COURSE OUTLINE:

Unit One: Foundations of Epidemiology

Week of 5/11

Week 1
 Course Overview
 Introduction to Epidemiology

Historic Developments in Epidemiology
Chapter 1 & 2 and other assigned materials

Week of 5/18

Week 2
Practical Disease Concepts in Epidemiology
General Health and Population Indicators
Chapter 3 & 6 and other assigned materials

Unit 2: Descriptive Epidemiology

Week of 5/25

Week 3
Design Strategies, Statistical Methods in Descriptive
Epidemiology
Chapter 4 and other assigned materials

Exam 1: Materials covered in Unit One (Chapter 1, 2, 3, & 6)

Week of 6/01

Week 4
Descriptive Epidemiology According to Person, Place and Time
Chapter 5 and other assigned materials

Unit 3: Analytic and Experimental Epidemiology

Week of 6/08

Week 5:
Analytic Epidemiology: Design Strategies and Statistical Methods
Case-Control Studies
Chapter 7 pages 164-174 and other assigned materials

Exam 2: Materials covered in Unit 2 (Chapter 4 & 5 and other assigned materials)

Week of 6/15

Week 6
Analytic Epidemiology: Design Strategies and Statistical Methods
Cohort Studies
Chapter 7 pages 174-184 and other assigned materials

Article Critique assigned

Week of 6/22

Week 7
Experimental Studies in Epidemiology
Chapter 8 and other assigned materials

Unit 4: Statistical and Causal Association, Screening and in Epidemiology

Special Fields

Week of 6/29:

Week 8
Statistical and Causal Association in Epidemiology

Chapter 9; pages 199-210 and other assigned materials
Exam 3: Materials covered in Unit 3 (Chapter 7 & 8 and other assigned materials)

Week of 7/06:

Week 9
Field Epidemiology and Screening
Chapter 9; pages 210-218 and other assigned materials
Chapter 10 and other assigned materials
Case Study Assigned (Outbreak Investigation)

Week of 7/13

Week: 10
Field Epidemiology
Chapter 10 and other assigned materials
Article critique due

Week of 7/20

Week 11
Chronic Disease and other Specialized Fields in Epidemiology
Chapter 11 and other assigned materials

Week of 7/27

Week 12:
Exam 4: Materials covered in Unit 4 (Chapter 9, 10 & 11)
Case study due

Week of 8/3

Week 13
Grades posted