

**PHC 6003 (Sec)EPIDEMIOLOGY AND PREVENTION OF CHRONIC DISEASES
Fall SEMESTER 2009**

Time: 2-5:00 p.m., Mondays Place: Room 1101 College of Public Health Bldg

Instructor: Nabih R. Asal, Ph.D., F.A.C.E.; Professor of Epidemiology, Division of Epidemiology, Department of Epidemiology and Biostatistics

Telephone: (352) 273-5363

Office Hours: Room 3110 PHHP Open door/appointments

DATE	LECTURER	TOPICS TO BE PRESENTED/DISCUSSED	READINGS	LECTURER
8/24/09	1	<ul style="list-style-type: none"> Introduction to the Epidemiology and Prevention of Chronic Diseases <p>Introduction to Epidemiology Reviews</p>	<p>Barret-Conner E Am J Epidem 1979 109:245-249; Kuller LH Yale J of Biol/Med 1987 60(4):363-376 Epidemiol Rev 1978-2005 Vols 1-27</p>	Asal
8/31/09	2	<ul style="list-style-type: none"> Causation In Chronic Disease Last JM, A Dictionary of Epidemiology (4th Ed, Oxford, 2001) 	<p>Rothman K. AJE 1976 104:58-592 Evans AS. AJE 1978 108:249-258</p>	Asal
9/07/09	3	<ul style="list-style-type: none"> Obesity as a Risk Factor in Chronic Diseases <p>Genetic Epidemiology of Obesity. Article Epidemiologic Reviews. 29(1):49-61, August 2007. <i>Yang, Wenjie 1; Kelly, Tanika 1; He, Jiang 1,2</i></p> <ul style="list-style-type: none"> Source: BRFSS, CDC & Mokdad AH 	<p>Kumanyika S Epidemiol Rev 1987 9:31-50; <ul style="list-style-type: none"> Epidemiologic Reviews: The Obesity Epidemic Volume 29, 2007 Mokdad AH et al. JAMA 1999;282:16 JAMA 2001;286:10 JAMA 2003;289:1.</p>	

10/05/09	9	<ul style="list-style-type: none"> • Breast Cancer: Epidemiology, Prevention, Early Detection and Control <u>Clavel-Chapelon F, Niravong M, Joseph RR.</u> Diet and breast cancer: review of the epidemiologic literature. <u>Cancer Detect Prev.</u> 1997;21(5):426-40. <p>SASCO Annie J. ⁽¹⁾ ; Epidemiology of breast cancer : an environmental disease ? review article APMIS. Acta pathologica, microbiologica et immunologica Scandinavica 2001, vol. 109, n°5, pp. 321-332 (83 ref.) ISSN 0903-4641</p>	<p>Epidemiol Rev 1993 15 (1):1-263; Kelsey JL et al Epidemiol Rev 1993 15 (1):7-16 and 256-263; Kelsey JL Epidemiol Rev 1979 1:74-109; Kelsey JL et al Epidemiol Rev 1990 12:228-240</p>	Asal
10/12/09	10	<ul style="list-style-type: none"> • Colorectal Cancer: Epidemiology, Prevention, Early Detection and Control <p>Coughlin, Steven S., A systematic review of the effects of screening for colorectal cancer ... Meta-analysis of observational studies in epidemiology: a proposal for reporting. Epidemiology. 13(5):599-600, September 2002. Systematic Reviews in Health Care: A Practical Guide.</p>	<p>Potter JD et. Al Epidemiol Rev 1993 15:499-545</p> <p><u>Yikyung Park,</u> Dietary Fiber Intake and Risk of Colorectal Cancer: A pooled Analysis of Prospective Cohort Studies. JAMA, 2005; 294:2849-2857</p>	Asal
10/19/09		<ul style="list-style-type: none"> • Examination I 	Review Lectures and Readings	Asal
10/26/09	11 12	<ul style="list-style-type: none"> • Prostate Cancer: Epidemiology, Prevention, Early Detection and Control • Prostate Cancer: To Screen or Not to Screen? <p>Schaid' Daniel J. The complex genetic epidemiology of prostate cancer Human Molecular Genetics, 2004, Vol. 13, Review Issue 1 R103-R121</p>	<p>Epidemiol Rev 2001 Vol 23:1-190; 30 articles Nomura AMY et al Epidemiol Rev 1991 13:200-227 <u>Chan JM, Stampfer MJ, Giovannucci EL</u> what causes prostate cancer? A brief summary of the epidemiology. <u>Semin Cancer Biol.</u> 1998 Aug;8(4):263-73.</p>	Asal

11/30/09	18	<ul style="list-style-type: none"> Diabetes: Epidemiology, Prevention and Control <p>Janghorbani, M., Van Dam, R.B. Willett, W.C. , Hu, F.B. Systematic Review of Type 1 and Type 2 Diabetes Mellitus and Risk of Fracture, American Journal of Epidemiology, June 16, 2007</p>	<p>Jarrett RJ Epidemiol Rev 1989 11:151-171 Barrett-Connor E Epidemiol Rev 1989 11:172-181; Harris MI et al Diabetes Care 1998 21(Suppl. 3) :C11-C14 Haffner SM Diabetes Care 1998 21 (Suppl. 3): C3-C6</p>	Asal
12/07/09		<ul style="list-style-type: none"> Examination II Course Evaluation by Students 	Review Lectures and Readings	Asal

Other Topics May be Substituted or Added Including, but Not Limited to the Following Topics :

The Epidemiology of Other Neurologic Diseases (Cowan L. et al Epidemiol Rev 2000 22: 18-23)

The Epidemiology of Injuries (Epidemiologic Reviews 2003 Vol 25:1-98)

The Epidemiology of Non-Alcoholic Fatty Liver Disease

Disaster Preparedness (Epidemiologic Reviews 2005 Vol 27:1-121)

Course Description

This advanced epidemiology course is intended to be a survey of the major chronic diseases with emphasis on recent epidemiology research and findings. The first series of lectures will introduce the demographic aspects of chronic illness, causation in chronic disease, smoking (lung cancer) and obesity and the role of screening in the early detection of chronic diseases. This will be followed by series of lectures on specific chronic diseases. The lecture on each disease will include a discussion on the epidemiologic features including risk factors, prevention, early detection (when appropriate) and control of the disease. The specific chronic diseases which will be discussed in this course are Cancers of the lung, cervix, breast, colo-rectum, and prostate, hypertension, ischemic heart disease, stroke, diabetes mellitus, chronic renal disease and renal cell carcinoma. Possibly other topics will be either substituted or added to the existing list of topics and they include: other neurologic disorders, non-alcoholic fatty liver disease, Disaster preparedness and injuries.

Course Objectives:

1. Provide familiarity with general, biological and epidemiologic aspects of major chronic diseases.

2. Familiarize students with risk factors associated with each disease and disease processes (patho-physiology) caused by these factors.
3. Emphasize upon multi-factorial nature and complexity of etiologic factors in causation of chronic diseases.
4. Examine study designs and methods used in epidemiologic research for these diseases. In addition, to identify the limitations and challenges faced by researchers in the study of these diseases.
5. Identify lifestyle changes and preventive measures that will have a positive impact on morbidity as well as mortality rates of chronic diseases.

Additional specific objectives will be presented with each lecture.

Conduct of Course:

1. **Lectures:** are for general orientation. Students are responsible for all the material presented in the class and assigned readings.
2. **Assignments:** The list of the assigned readings has been provided with the course outline. The assigned reading material is intended to supplement lectures. No textbook is required for the course.

3. Examinations:

Students are expected to take the examinations on the scheduled date and time. Make up examinations are not allowed except under very unusual and convincing circumstances. Students who fail to take the examinations on the scheduled date and time period without a written permission of the instructor will receive a grade of F on the examination. This policy will be strictly enforced. Two examinations will be given during the course on the scheduled dates. Examinations will consist of short answer and multiple choice questions.

There will be two (two hour) examinations. Each examination will count 40% of the grade for a total of 80% of the Final course grade.

4. **Special Project:** 15% of the Final course grade will be assigned to a Special Project. The Special Project will consist of a current literature review and a 50 slide Power Point presentation on the Epidemiology of a Chronic Disease not covered in class. The Power Point presentations are due two weeks before the Final Examination date. 5% of the Final course grade will be assigned to updates of the topics presented by the instructor in class. This should be a series of 5 Power Point slides that updates lecture material not covered by the Instructor including recent references and findings from the references.

5. Textbooks- A list of references both required and optional readings will be provided to the students. No textbook is recommended at this time.

6. Grades: The Grading scale for this course consists of the standard scale below: A= 90% -100%, B+= 84.9%- 89.9%, B= 80%- 84.9%, C+= 75%-79.9%, C= 70-74.9, D+= 65% -69.9%, D=60%-64.9%, E= Below 60.9%

Counseling Resources: Counseling Center, UF, 301 Peabody Hall, 392-1575

www.counsel.ufl.edu . Student Mental Health Services, UF, 392-1171

www.health.ufl.edu/schcc/smhs.htm (24-hour phone consultation)

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7. Requirements: Students are responsible for all course material, including reading all required materials prior to each class.

8. Classroom etiquette: Please come to class on time and be prepared to stay until the time scheduled as the end of class. We think your investment in the degree is worth my maximizing your in-class experience, and we usually provide materials that extend the full, scheduled class times. Pagers and cell phones should not be used in class. The use of cell phones, text messaging, and pagers is one of the most common complaints I have from students in recent years. Please turn them off. Or, if you expect urgent calls, set them to “vibrate.”

9. Academic Integrity: Each student is bound by the academic honesty guidelines of the University and the student conduct code printed in the Student Guide and on the University website. The Honor Code states: “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.” Cheating or plagiarism in any form is unacceptable and inexcusable behavior.

10. Class Attendance: Class attendance is mandatory. Excused absences follow the criteria of the UFL Graduate Catalogue (e.g., illness, serious family emergency, military obligations, religious holidays), and should be communicated to the instructor prior to the missed class day when possible. UFL rules require attendance during the first two course sessions, and students also must attend all course sessions of student presentations for this class. Missing more than three scheduled sessions will result in a failure (counting Mondays with two class hours as a session). Regardless of attendance, students are responsible for all material presented in class and meeting the scheduled due dates for class assignments. Finally, students should read the assigned readings

prior to the class meetings, and be prepared to discuss the material except for the first class session.

11. Policy on Make-Up Work: Students are allowed to make up work ONLY as the result of illness or other unanticipated circumstances warranting a medical excuse and resulting in the student missing a homework or project deadline, consistent with College policy. Documentation from a health care provider is required. Work missed for any other reason will receive a grade of zero.

12. Accommodations for Students with Disabilities: Students requiring accommodations must first register with the Dean of Students' Office. The Dean of Students' Office will provide documentation to the student who must then provide this documentation to the faculty member when requesting accommodation. The College is committed to providing reasonable accommodations to assist students in their coursework. We all learn differently: however, if you have experienced problems in university classes with writing, in-class exams, understanding or concentrating in class, please talk to me or access a learning or education testing resource at the University or in another professional setting.

