

UNIVERSITY SENATE REVIEW AND CONSULTATION SUMMARY SHEET

Proposal Title: New Graduate Certificate Proposal – Global Health

Proposal Contact: Dr. Claudia Hopenhayn
121 Washington Avenue, Room 213
219-0773 ext 307 or via email at cmhope0@uky.edu

Instruction: To facilitate the processing of this proposal please identify the groups or individuals reviewing the proposal, identify a contact person for each entry, provide the consequences of the review (specifically, approval, rejection, no decision and vote outcome, if any) and please attach a copy of any report or memorandum developed with comments on this proposal.

Reviewed By	Contact person	Consequences of Review	Date of Proposal Review	Review Summary Attached?
Academic Affairs Committee	Marta Mendiondo, Chair	Approved	4-9-08	Yes
Faculty Council	Glyn Caldwell, Chair	Approved	4-10-08	Yes
CPH Dean	Stephen Wyatt, Dean	Approved	3-31-08	Yes
Office of Academic Affairs	Linda Alexander, Associate Dean	Approved	1-18-08	Yes



UNIVERSITY OF KENTUCKY

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COLLEGE OF PUBLIC HEALTH

M E M O R A N D U M

TO: Health Care Colleges Council

FROM: Linda A. Alexander, EdD
Associate Dean for Academic Affairs

SUBJECT: New Certificate Proposal – Global Health

DATE: April 23, 2008

It is the intention of the College of Public Health to begin offering a new graduate certificate in Global Health.

In an effort to expand our ability to respond to health professionals' desire to become more aware of health issues around the world, our College has developed a certificate to meet this need. Its multidisciplinary nature makes it appropriate for a variety of health professionals, including our public health students, and it is open to graduate students in any of the health sciences or other disciplines across campus. It will also be available to professionals or other college graduates interested in obtaining this additional training.

After the full proposal was completed, it was reviewed and approved by the Academic Affairs Committee and the Faculty Council, according to our college's established bylaws.

Further information about this course can be obtained by contacting the program's proposed director, Dr. Claudia Hopenhayn, at 219-0773 or via email at cmhope0@uky.edu.

From: Glyn Caldwell [mailto:glyncaldwell@dcr.net]

Sent: Thursday, April 10, 2008 7:58 PM

To: Mendiondo, Marta

Cc: Murphy, Shanelle D; Murphy, Shanelle D; Hopenhayn, Claudia

Subject: Faculty Council Approval of Global Health Certificate Program

The Faculty Council approved the proposed certificate in Global Health Program during today's meeting.

The Global Health Certificate has been approved by the CPH Academic Affairs Committee and all paperwork has been sent to Faculty Council for their vote.

Marta S. Mendiando
Chair of AAC

Marta S. Mendiando, PhD
University of Kentucky College of Public Health - Biostatistics Department
Rm 207A Sanders-Brown Bldg.
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Brothers, Sheila C

From: Menciondo, Marta
Sent: Thursday, December 18, 2008 3:14 PM
To: Brothers, Sheila C
Subject: SAPC

Sheila,
At the December 12, 2008 meeting the SAPC approved the recommendation of the following programs:

New Graduate Certificate: Assistive and Rehab Technology
New Program: Gender and Women Studies
New Graduate certificate: Global Health

We did not discuss the PharmD / MPH Dual Program. The primary reviewer was not there due to a sick child, otherwise we had perfect attendance.

Please let me know what other programs are for the January agenda. I will send an email tomorrow morning to make sure that we are going to have a quorum on the 9th, otherwise I will postpone it to the 16th if more convenient.

Tx,
Marta

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UNIVERSITY OF KENTUCKY

D r e a m • C h a l l e n g e • S u c c e e d

COLLEGE OF PUBLIC HEALTH

MEMORANDUM

To: Dr. Marta Mendiondo
Chair, Academic Affairs Committee
College of Public Health

Dr. Jeannine Blackwell
Dean, Graduate School
University of Kentucky

From: Dr. Stephen Wyatt
Dean, College of Public Health

Date: March 31, 2008

Subject: Global Health Certificate Program

Attached is a proposal submitted by Dr. Claudia Hopenhayn, College of Public Health (CPH), to create a Graduate Certificate Program in Global Health. This program will be available to not only students in the CPH, but also to all graduate and professional students in the Health Colleges, and potentially to interested graduate students from other programs at the University.

Dr. Hopenhayn has extensive experience conducting research in developing countries and mentoring students' internships abroad, and she has been nominated to be the Director of the Certificate Program, with up to 20% of her DOE assigned to this role. Associates have been drawn from all the departments in the College of Public Health and the other Health Colleges, showing the multidisciplinary nature of this certificate. The proposed program will consist of a minimum of 15 credit hours, including 12 credit hours of coursework, and a 3 credit hour internship to be conducted in a foreign country.

The proposed Certificate Program has broad support among many colleges and departments at the university. It also fits well with Provost Subbaswamy's commitment to increasing the internationalization of the University. A survey of students across the six Health Colleges, with over 500 respondents, revealed a high level of interest in a global health program. The curriculum, described in the attached application, is multidisciplinary, as reflected in the elective courses drawn from numerous departments across the University.

I am very supportive of the creation of a Graduate Certificate Program in Global Health and I think it will be of significant interest and benefit to students and to the University community.

Stephen W. Wyatt, DMD, MPH
Dean, College of Public Health

3/31/08
Date

Office of the Dean

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An Equal Opportunity University

Proposal for a Graduate Certificate Program in Global Health

Purpose:

The goal of the graduate certificate program in global health (hereafter referred to as GH program certificate) is to provide a general foundation in the understanding of global health issues and the complex multiplicity of factors that affect them, and to provide some basic tools in health assessment methods to measure their impact. Given the widespread globalized nature of our world today, there is an increasing need for understanding the impact of globalization on health, both in terms of health patterns common across regions, and in terms of how what were once considered focal, limited local issues can transcend national and continental borders. The GH program certificate is designed to prepare students for the increasing demand for international, interdisciplinary skills in the areas of public health prevention, health care and other health-related disciplines.

The GH program certificate will include a minimum of 15 units - 12 of classroom coursework and 3 based on a required international internship course. The GH program certificate will be housed in the College of Public Health, but it is intended to be multidisciplinary and open to a variety of graduate students in any of the health sciences or other disciplines across campus. It will also be available to professionals or other college graduates interested in obtaining this additional training.

Background:

In 2007 a global health committee was formed to discuss the interest and need, and subsequently to develop the GH program certificate, chaired by Dr. Claudia Hopenhayn. This committee included faculty representatives from each of the six departments in the College of Public Health (CPH), as well as a faculty member from each of the other five UK health colleges (medicine, dentistry, nursing, health sciences and pharmacy). The committee met several times throughout 2007, and developed a curriculum for the GH program certificate. The development of the current application for the GH program certificate was the result of several key activities and interests, and the awareness that global health has emerged as a multidisciplinary field across private and public, academic, research and educational, national and international organizations:

- An extensive review of similar programs across U.S. universities. In 2006 over 40 programs in international/global health were offered in association with Master's of Public Health, in addition to those offered by other colleges or units. The programs range from certificate programs, MPH concentrations, or as specialty tracks within concentrations (e.g. MPH in global health epidemiology).
- A survey of over 500 UK graduate students from the 6 health colleges revealed significant interest in a global health program across disciplines.
- A comprehensive review of graduate courses offered across the UK campus, which showed many potential elective courses for the GH program certificate.
- Feedback from faculty in other UK colleges, including geography, anthropology, entomology and others demonstrated wide support for the GH program certificate.

- The overall plan for increasing internationalization of the UK campus, including participation of students in educational, training and/or internship programs abroad.

After discussions by the global health committee, and with the dean of CPH, the chair of CPH Faculty Council and of the Department of Epidemiology, it was decided that the proposed [program certificate](#) would be offered by CPH, through the Department of Epidemiology.

Admission Requirements:

University of Kentucky students enrolled in, or accepted to, a graduate or [post-baccalaureate](#) professional degree program (e.g. medicine, dentistry, law) may apply for admission to the GH [Program Certificate](#).

[Students in professional doctorate programs and](#) [Other](#) individuals wishing to apply for admission to the GH [Program Certificate](#) must first apply [to and satisfy the requirements of the for post-baccalaureate status in the](#) University of Kentucky Graduate School. The minimum Graduate School requirements for admission to a graduate certificate [program](#) are the same as those in effect for post-baccalaureate status.

Applications to the GH [Program Certificate](#) will be reviewed by the Certificate Director, who will notify the Graduate School in writing when a student is [recommended for admission](#) [admitted to the Program](#). The number of students admitted to the GH [Program Certificate](#) each year may be limited, depending on the resources available to provide the teaching, mentoring and international internship supervision necessary for successful completion of the GH [Certificate program](#). It is anticipated that the [program certificate](#) -will start with 5-10 students per year.

Global Health Graduate Certificate Requirements:

As required by the Graduate School, a student must maintain a minimum GPA of 3.0 in the courses required for completion of the GH [Program Certificate](#). The curriculum of the GH [program Certificate](#) will consist of a minimum of 15 units, and are described in more detail in Appendices I and II. The curriculum will be divided into required and elective courses as follows:

Required courses:

- 1) CPH-751: Introduction to Public Global Health - 3 units;
This course has been previously offered as CPH-758: Special Topics in Health Services Management; International Public Health (3). It is currently being submitted as a new course titled Introduction to Public Global Health.
- 2) A health assessment course – 3 units:
This requirement can be met by completion of CPH-605 (Epidemiology). Other courses may fulfill this requirement, but must be approved by the Certificate Director.
- 3) CPH-709: Global Health Internship – 3 units
To obtain the GH Certificate, students enrolled in the [program certificate](#) must perform an international internship of a minimum duration of four weeks. This

application. The course will have a similar format to CPH-609, a practicum course requirement for MPH students. The internship is described in more detail in Appendix II.

Electives:

Two elective courses, totaling at least 6 units, will complete the requirements for the GH ~~e~~Certificate ~~program~~. A list of possible electives courses has been compiled and is included in Appendix I. One of the electives will be selected from list A. The second elective can be from list A, list B, or another course not listed that is relevant to global health. The selection will depend on the student's interest and goals. The selection of electives will be limited to not more than one course from the CPH, to ensure breadth of content by requiring all students to select at least one course from other disciplines.

Award of Certificate in Global Health:

When a student enrolled in the UK Graduate School has successfully completed the last required course for the GH Certificate ~~Program~~ and has satisfied the GPA requirements stated above, the Certificate Director shall send a completed, signed Graduate Certificate Completion Form to the Dean of the Graduate School verifying that the student has fulfilled all requirements for the certificate and requesting award thereof. The Graduate School shall then issue the student's certificate and official notify the University Registrar of the awarding of the certificate, for posting to the student's permanent transcript.

Graduate Certificate Director:

The director for the GH ~~Program~~Certificate will be Claudia Hopenhayn, PhD, MPH (pending appointment by the Dean of the Graduate School). Dr. Hopenhayn is an Associate Professor of Epidemiology in the College of Public Health and full member of the Graduate Faculty. She has experience in international research, teaching and student mentoring.

Graduate Certificate Associates:

Associates will be faculty from the various CPH departments, other health colleges, and possibly other UK colleges with an interest and commitment to global health, and may change over time. Initially, the list of Associates includes the following:

Joel Lee, PhD, Professor, Dept. of Health Services Management, CPH
Julia Costich, PhD, JD, Assistant Professor, Dept. of Health Services Mgt., CPH
Evelyn Knight, Ph.D, Associate Professor, Dept. of Health Behavior, CPH
Gail Brion, PhD, Raymond-Blythe Professor, Dept. of Environmental Health and Preventive Medicine, CPH, and College of Engineering
Marta Mendiondo, PhD, Assistant Professor, Dept. of Biostatistics, CPH
Faika Zanjani, PhD, Assistant Professor, Dept. of Gerontology, CPH
Sam Metheny, MD, MPH, Professor, Dept. of Family Medicine, College of Medicine
Thomas Young, MD, MPH, Professor, Dept. of Pediatrics, College of Medicine
Melody Ryan, PhD, MPH, Associate Professor, College of Pharmacy
Kristin Ashford, PhD, ARNP, Assistant Professor, College of Nursing
Juan Yepes DDS, MD, MPH. Assistant Professor, College of Dentistry

APPENDIX I: Courses for the Graduate Certificate in Global Health REQUIRED COURSES

1) CPH-751: INTRODUCTION TO GLOBAL HEALTH (3)

New course to be offered starting in Fall 2008. This graduate level course will acquaint students with the major issues and challenges for public health in a variety of wealthy, emerging, and impoverished nations and with the impact of local or regional issues on national and/or global levels.

2) A Health Assessment/Epidemiology course (3).

This requirement can be currently met by CPH 605 – EPIDEMIOLOGY (3). Other courses may also fulfill this requirement (will require approval of the Director of the GH [Program Certificate](#)).

This is a graduate level course introducing the principles and methods of epidemiologic research, including descriptive measures of disease, risk factors and intervention; screening, study design, bias, confounding and validity.

3) CPH-709: GLOBAL HEALTH INTERNSHIP (3)

**New course to be offered starting in Summer or Fall of 2008.
SEE SEPARATE DESCRIPTION IN APPENDIX II.**

ELECTIVE COURSES

Students are to select at least **two** elective courses, for a minimum of 6 units. Below is a selected list of possible electives, but students may elect other courses, with prior approval of the Graduate Certificate Director. Courses have to include topics related to global health, from a medical, cultural, geographical, sociological, or other perspective. One elective has to be from List A (or be approved by GH Director). At least one course has to be a non-CPH course.

LIST A:

ANT 646 GLOBAL HEALTH: PEOPLE, INSTITUTIONS, AND CHANGE (3)
CE 655 WATER SANITATION AND HEALTH. (3)
CPH646 PUBLIC HEALTH AND ANTHROPOLOGY (3)
CPH 612 INFECTIOUS/EMERGING DISEASES EPIDEMIOLOGY. (3)
GEO 475G MEDICAL GEOGRAPHY. (3)
ENT 561 INSECTS AFFECTING HUMAN AND ANIMAL HEALTH. (3)

LIST B:

AAS 431G CULTURES AND SOCIETIES OF SUB-SAHARAN AFRICA. (3)
ANT 603 HUMAN BIOLOGY IN CONTEXT OF SOCIOCULTURAL CHANGE. (3)
ANT 766 GENDER, ETHNICITY AND HEALTH. (3)
ANT 774 FOOD AND FOOD SECURITY IN A CHANGING WORLD (3)/ BSC 774
ANT 775 CULTURE AND POLITICS OF REPRODUCTION (3)
ANT 637 or SOC 637 SOCIOCULTURAL DIMENSIONS OF ECONOMIC DEVELOPMENT. (3)
BIO 582 VIROLOGY
BSC 766 CONCEPTS IN MEDICAL SOCIOLOGY. (3) Same as SOC 766
BSC 763: SEMINAR ON HEALTH INEQUITIES
CHE 565, ENVIRONMENTAL CHEMISTRY (3)
CJT 619 PROSEM. IN INTERNATIONAL/ INTERCULTURAL COMMUNICATION (3)
CPH 645 FOOD SYSTEMS, MALNUTRITION AND PUBLIC HEALTH. (3)
GEO 544 HUMAN POPULATION DYNAMICS. (3)
NUR 752 CULTURALLY COMPETENT HEALTHCARE: CLIENT, CLINICIAN, AND ORGANIZATIONAL PERSPECTIVES. (3)

APPENDIX II: CPH 709: Global Health Internship

Course Learning Objectives

This course will provide the opportunity for students to participate in a health-related activity, project or program in a resource-limited setting in a foreign country. This will allow students in the Global Health Certificate [Program](#) to gain direct international experience with some relevant, current global health issues, and to integrate and apply knowledge and skills learned in their coursework.

The minimum duration of the internship will be four weeks. The internship will be a 3 unit graduate course (to be submitted as a new course, similar in format to the practicum course CPH-609).

Each internship will be unique, depending on the student's background and interest, as well as on the needs and resources of the location where it will be conducted. The main activity and setting of the internship can range from providing primary or specialty direct patient care in a hospital, outpatient or other type of medical setting; prevention, community health or health education activities in schools, neighborhood meetings or other venues; collection of environmental samples from water, soil, food, etc. For students in the colleges of Medicine, Nursing, Dentistry, Pharmacy and Health Sciences, the internship may take the form of a rotation.

Internship placements will require completion of an application to be submitted to and reviewed by the GH certificate director. The internship application shall include a proposed work plan, with activity and learning objectives, and a mentorship plan which should include a UK-GH associate faculty supervisor and a local, qualified mentor or supervisor in the host location. Approval of the internship application will also include consideration of the student's background, interests and language capabilities.

In addition to the field experience, before traveling the student will complete pre-departure orientation and preparation requirements of the Office of International Affairs for students studying and/or working abroad. Upon returning to the U.S., the student must report on his/her experience in the form of a written report, an oral, open presentation or other format and be approved by the UK-GH supervisor, for the completion of his/her internship.

Exceptions to above:

- With approval of the GH [Program-Certificate](#) director, international students may be able to conduct the internship in a resource-limited or underserved setting in the U.S.
- Reduction of the duration of the internship abroad to less than 4 weeks will be considered only in exceptional cases and will require written approval of the GH [Program-Certificate](#) director.

Funding for travel and living expenses will be responsibility of the student, but the GH [Program Certificate](#) Director and associate faculty will assist in pursuing travel funds from available sources, such as fellowships, travel awards and financial aid towards study or practice abroad.

University of Kentucky College of Public Health
CPH-605: Introduction to Epidemiology
Fall 2007

Course Demographics

- Meeting day/s, time and place: 12 – 2:30 p.m., Tuesday in Wethington Bldg 415

Instructor Information

Steven T. Fleming, Ph.D.

Office: SPH Building Room 213C

Telephone: (859) 257-5678 ext. 82330 (Phone Epidemiology Office)

(859) 257-5678 ext. 82229 (Phone: Work-Office)

Office Hours: Tuesday 2:30 – 4:30 PM or by appointment

Teaching Assistant: Rachel Hall rehall2@uky.edu

CPH Room 213A

257-5678 ext. 82016

Office Hours: Monday 11-3, Tuesday 12-2, and by appointment

Course Rationale

This course describes the concepts and principles of epidemiology, which is the distribution and determinants of disease in human populations. The purpose is to describe epidemiology as a set of tools for clinical or managerial decision-making. The course includes discussions of the theory and methods of epidemiology, including key concepts such as incidence, prevalence, mortality, morbidity, risk, exposure and the interaction of agent, host, environment across the constructs of time, person, and place. The course also expostulates the basic types of epidemiologic investigation (retrospective and prospective observational studies and experimental designs) and distinctive features/problems associated with these designs such as relative risk, odds ratio, sensitivity, specificity, and various types of bias.

Course Goals

After completion of this course in Introduction to Epidemiology the student will be able to:

1. Define epidemiology and differentiate between a clinical and an epidemiological approach.
2. Describe the historical evolution of epidemiology.
3. Identify the contributions of biology, statistics, demography, and sociology as they relate to the science of epidemiology.
4. Describe the concepts of agent, host, environment, risk, exposure, person, place, and time.
5. differentiate between incidence and prevalence of disease; calculate mortality and morbidity rates; describe adjustment and standardization in time, by age, sex, and other risk factors.
6. Differentiate between various kinds of study designs in terms of validity, cost, advantages and disadvantages.
7. Describe the following types of epidemiologic studies: (a) case-control; (b) cohort; (c) randomized clinical trials; (d) community trials.

8. Identify sources of bias and missclassification in epidemiological studies
9. Describe how physicians use epidemiologic methods in the practice of medicine

Relationship to Public Health Degree Program Goal(s) and Objectives

This course relates directly to the accomplishment of the educational program goals for the M.P.H. and Dr.P.H. degrees. The MPH goal and objectives are described in the Student Handbook which students received upon enrollment into the MPH degree program. Similarly, the Dr.P.H. goal and objectives are described in the Student Handbook which students receive upon enrollment into the Dr.P.H. degree program. Please reference the appropriate educational program goals throughout the semester, as they will provide a framework for this course and as such will contribute to your preparation for successfully completing other degree program requirements (e.g., capstone, practicum, and Dr.P.H. comprehensive examination).

Relationship Of This Course To Epidemiology Concentration Area Terminal Objectives

In relationship to the MPH degree, this course contributes toward fulfillment of the following terminal objectives for students concentrating in epidemiology.

1. Explain the purposes and applications of epidemiology.
2. Search and/or critically review the epidemiology literature.
3. Identify and use appropriate epidemiology study designs & principles.
4. Collect and manage data for investigating epidemiology issues
5. Analyze epidemiological data using appropriate statistical methods.
6. Interpret and clearly communicate findings.
7. Assess the ethical issues that confront epidemiology and appropriately address these issues.
8. Integrate principles of epidemiology into the practice of public health.

In relationship to the Dr.P.H. degree, this course contributes toward fulfillment of the following terminal objectives for students concentrating in epidemiology.

1. Explain and apply the principles and methods of epidemiology in a wide variety of clinical, community, environmental and public health situations.
2. Search, critically review, and synthesize and interpret the epidemiologic and public health literature to impact public health policy.
3. Identify and employ appropriate epidemiologic study designs to develop fundable epidemiologic and public health programs.
4. Direct the collection, compilation, and management of epidemiologic data for surveillance and investigation of epidemiologic issues.
5. Direct the analysis of epidemiologic data using advanced statistical methods.
6. Interpret and clearly communicate complicated epidemiological findings to collaborators, legislators, administrators, and the public to effect public health policy.
7. Summarize and assess ethical issues that confront epidemiology and public health and integrate appropriate strategies to resolve those issues.
8. Effectively lead, educate, and mentor students, coalitions, clinicians, legislators, administrators, public health practitioners, and other persons to utilize epidemiological data, methods and findings to impact public health and public health practice.

Course Content

Class Date	Topic	Reading Assignment (Gordis)
08/28/07	Description of the course: introduction and overview	Gordis Chapter 1 Dalton CB, C.C. A, Sobel J, et al. An outbreak of gastroenteritis and fever due to listeria monocytogenes in milk. N Engl J Med 1997; 336: 100-105. Hepatitis A Outbreak Associated with Green Onions at a Restaurant --- Monaca, Pennsylvania, 2003. MMWR. November 28, 2003 / 52(47): 1155-1157. http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5247a5.htm
09/04/07	History of epidemiology Epidemiologic concepts: exposure, disease transmission	Gordis Chapter 2 TI: Assessing the contributions of John Snow to epidemiology: 150 years after removal of the broad street pump handle. AU: Paneth,-N SO: Epidemiology . 2004 Sep; 15(5): 514-6. Interview. John Snow interviewed by Kenneth J. Rothman. AU: Snow,-J SO: Epidemiology . 2004 Sep; 15(5): 641-4
09/11/07	Epidemiologic concepts: agent, host, environment	Are there social determinants of health and disease? AU: Thisted,-R-A SO: Perspect-Biol-Med . 2003 Summer; 46(3 Suppl): S65-73
09/18/07	Epidemiologic concepts: incidence, prevalence	Gordis Chapter 3 Streiner DL. Let me count the ways: measuring incidence, prevalence, and impact in epidemiological studies. Canadian Journal of Psychiatry 1998 43(2): 173-179
09/25/07	Measuring mortality: direct and indirect standardization	Gordis Chapter 4 Kliwer EV, Smith KR. Breast cancer mortality among immigrants in Australia and Canada. J Nat Canc Inst 1995;87:1154-1161.
10/02/07	Measuring morbidity: sensitivity, specificity, PPV, NPV	Gordis Chapter 5 Johnson KM. 1999. The two by two diagram: a graphical truth table. J Clin Epidemiol 52(11): 1073-1082.

10/09/07	Measuring mortality: risk adjustment	Gordis Chapter 4
10/16/07	MID-TERM EXAM	
10/23/07	Infectious Disease: Influenza and Avian Flu, Dr. Glyn Caldwell	
10/30/07	Overview of study design and causal inferences	Gordis Chapter 14
11/06/07	Cohort studies	Gordis Chapters 9 and 11 Samet JM and A. Munoz. 1998. Evolution of the cohort study. <i>Epidemiologic reviews</i> 20(01): 1-14. Szklo M. 1998. Population-based cohort studies. <i>Epidemiologic Reviews</i> 20(1): 81-90. Willett WC and Colditz GA. 1998. Approaches for conducting large cohort studies. <i>Epidemiologic Reviews</i> 20(1): 91-99.
11/13/07	Randomized Controlled Trials	Gordis Chapters 7 and 8
11/20/07	Case-control	Gordis Chapters 10 and 13 Abenhaim L., Y. Moride, F. Brenot, S. Rich, J. Benichou, X. Kurz, T. Higenbottam, C. Oakley, E. Wouters, M. Aubier, G. Simonneau, B. Begaud. 1996. Appetite-suppressant Drugs and the Risk of Primary Pulmonary Hypertension. International Primary Pulmonary Hypertension Study Group. <i>N Engl J Med.</i> 335(9): 609-16. Daling, J. R., L. A. Brinton, L. F. Voigt, N. S. Weiss, R. J. Coates, K. E. Malone, J. B. Schoenberg, and M. Gammon. 1996. Risk of Breast Cancer Among White Women Following Induced Abortion. <i>Am. J. Epidemiol</i> 144(4): 373-380. Rookus, M. A. and F. E. van Leeuwen. 1996. Induced Abortion and Risk for Breast Cancer: reporting (recall bias in a Dutch base-control study. <i>J. Nat. Canc. Inst.</i> Dec. 4; 88(23): 1759-1764.
11/27/07	Causal inferences: bias, confounding, interaction	Gordis Chapters 12, 14 and 15

		Hammal DM and Bell CL. Confounding and bias in epidemiological investigations. <i>Pediatric Hematology/Oncology</i> 2002 19(6): 375-381.
12/04/07	Review	
12/13/07	Final Examination	

Instructional Strategies

The course will consist of thirteen 2 ½ hour lectures given on Tuesday 6:00 – 8:30 in Wethington Room 415.

Assessment and Evaluation

- | | |
|---------------------|-----------------|
| 1. Two examinations | 40% (each exam) |
| 2. Problem sets | 20% |

All exams will cover both lecture material and readings from the text. Any student who misses a class session is responsible for obtaining notes or other handout materials from a fellow classmate. No make-up exams will be given unless arrangements are made with the instructor in advance of the scheduled exam. Any student who fails to take a scheduled exam without making prior arrangements with the instructor in advance of the exam will receive a "0" for the scheduled test. This same policy will be applied to exercises and special projects.

Each student is expected to participate in class discussions each week by reading and discussing the reading assignments.

Instructional Resources

Required Text:

Gordis L, *Epidemiology* (3rd Edition). Philadelphia: W.B. Saunders Company, 2004.

Other Recommended (reference) epidemiology books:

- 1) Rothman, KJ. *Epidemiology: An Introduction*. New York: Oxford UP, 2002
- 2) Last, JM ed. *A Dictionary of Epidemiology* (4th Ed.). New York: Oxford UP, 2001.
- 3) Aschengrau, A. & Seage GR. *Essentials of Epidemiology in Public Health*. Sudbury: Jones and Bartlett Publishers, 2003.
- 4) Timmreck TC, *An Introduction to Epidemiology* (3rd Ed.). Boston: Jones and Bartlett, 2002.
- 5) Fleming ST, Scutchfield FD, Tucker TC. *Managerial Epidemiology*. Chicago: Health Administration Press, 2000.
- 6) Garrett, Laurie, *The Coming Plague*, New York: Penguin Books, 1995.

Additional readings: Most class sessions include additional readings. Full text versions are available on-line. Students will not be tested from the readings, except to the extent that they are covered in class lectures.

Administrative Comments/Course Policies

Expectations with regard to academic honesty:

Academic honesty is fundamental to the activities and principles of a university. All members of the academic community must be confident that each person's work has been responsibly and honorably prepared, developed, and presented. Any effort to gain an advantage not given to all students is dishonest whether or not the effort is successful. The academic community regards academic dishonesty as an extremely serious matter, with serious consequences that range from a grade of "E" to expulsion from the University. Both cheating and plagiarism are considered academic dishonesty. Cheating refers to any unauthorized assistance during examinations, such as notes or handouts. It also includes either giving or taking the answers to examination questions to/from other student(s). Plagiarism is academic "theft", and includes not properly crediting another author for his/her work or idea. Any paraphrase or direct quotation from a published or unpublished work should be properly cited with a footnote or reference. Students must be particularly careful not to engage in plagiarism, even inadvertently, since computers and internet web-browsing seem to facilitate this process.

Enabling Accommodations:

If you have a documented disability that requires academic accommodations, please see me as soon as possible during scheduled office hours. In order to receive accommodations in this course, you must provide me with a Letter of Accommodation from the Disability Resource Center (www.uky.edu/TLC/grants/uk_ed/services/drc.html). If you have not already done so, please register with the Disability Resource Center (Room 2 Alumni Gym, 257-2754, jkarnes@uky.edu) for coordination of campus disability services available to students with disabilities.

APPLICATION FOR NEW COURSE

1. Submitted by the College of Public Health Date: 2-13-2008

Department/Division proposing course: Department of Epidemiology

2. Proposed designation and Bulletin description of this course:

a. Prefix and Number CPH 709

b. Title* Global Health Internship

*If title is longer than 24 characters, write a sensible title (24 characters or less) for use on transcripts:

c. Courses must be described by at least one of the categories below. Include the number of actual contact hours per week for each category, as applicable.

() CLINICAL () COLLOQUIUM () DISCUSSION () LABORATORY () LECTURE
() INDEPEND. STUDY (x) PRACTICUM () RECITATION () RESEARCH () RESIDENCY
() SEMINAR () STUDIO () OTHER – Please explain: _____

d. Please choose a grading system: Letter (A, B, C, etc.) Pass/Fail

e. Number of credit hours: 3

f. Is this course repeatable? YES NO If YES, maximum number of credit hours: 6

g. Course description:

This course will consist of an internship in a foreign country, preferably in a resource-limited setting. Students will have both a University of Kentucky and a local mentor, and will develop a plan for participating in some type of health-related project or activity during a four-week period. A paper or presentation summarizing the key components of the internship experience will be submitted upon returning to Lexington.

h. Prerequisite(s), if any:

Enrollment in the Graduate Certificate in Global Health Program, and completion of the course CPH-751: Introduction to Global Health, or approval from the Director of the certificate.

i. Will this course be offered through Distance Learning? YES NO

If YES, please circle one of the methods below that reflects how the majority of the course content will be delivered:

Internet/Web-based Interactive video Extended campus Kentucky Educational Television (KET/teleweb) Other

Please describe "Other": The internship for this course will be off-campus, in a foreign location

3. Teaching method: N/A or Community-Based Experience Service Learning Component Both

4. To be cross-listed as: _____

APPLICATION FOR NEW COURSE

Prefix and Number

Signature of chair of cross-listing department

5. Requested effective date (term/year): Summer / 2008
6. Course to be offered (please check all that apply): Fall Spring Summer
7. Will the course be offered every year? YES NO
If NO, please explain: _____
8. Why is this course needed?
This new course will constitute an integral part and culminating experience for students accepted into the Graduate Certificate in Global Health Program.

9. a. By whom will the course be taught? Claudia Hopenhayn, PhD
- b. Are facilities for teaching the course now available? YES NO
If NO, what plans have been made for providing them?

10. What yearly enrollment may be reasonably anticipated?
5-10
11. a. Will this course serve students primarily within the department? Yes No
- b. Will it be of interest to a significant number of students outside the department? YES NO
If YES, please explain.
The course will be a requirement for the Graduate Certificate in Global Health. It is anticipated that this Certificate will attract students from the 6 departments in the College of Public Health, as well as students from the other 5 health colleges and from some other departments across the UK campus (e.g. anthropology, entomology).

12. Will the course serve as a University Studies Program course[†]? YES NO
If YES, under what Area? _____
[†]AS OF SPRING 2007, THERE IS A MORATORIUM ON APPROVAL OF NEW COURSES FOR USP.
13. Check the category most applicable to this course:
- traditional – offered in corresponding departments at universities elsewhere
- relatively new – now being widely established
- not yet to be found in many (or any) other universities
14. Is this course applicable to the requirements for at least one degree or certificate at UK? Yes No
15. Is this course part of a proposed new program? YES NO
If YES, please name: Graduate Certificate in Global Health

APPLICATION FOR NEW COURSE

16. Will adding this course change the degree requirements for ANY program on campus? YES NO
 If YES[†], list below the programs that will require this course:

[†]In order to change the program(s), a program change form(s) must also be submitted.

17. The major teaching objectives of the proposed course, syllabus and/or reference list to be used are attached.
18. Check box if course is 400G or 500. If the course is 400G- or 500-level, you must include a syllabus showing differentiation for undergraduate and graduate students by (i) requiring additional assignments by the graduate students; and/or (ii) the establishment of different grading criteria in the course for graduate students. (See SR 3.1.4)

19. Within the department, who should be contacted for further information about the proposed new course?

859-219-0773,

Name: Claudia Hopenhayn Phone: ext. 307 Email: cmhope0@uky.edu

20. Signatures to report approvals:

<p style="text-align: center; font-size: 1.2em; margin: 0;">2-13-08</p>	<p style="margin: 0;">Dr. Thomas Tucker</p>		
DATE of Approval by Department Faculty	printed name	Reported by Department Chair	signature
<p style="text-align: center; font-size: 1.2em; margin: 0;">Stephen W. Wyatt</p>	<p style="margin: 0;">Dr. Steve Wyatt</p>	/	4-21-08
DATE of Approval by College Faculty	printed name	Reported by College Dean	signature
<p style="font-size: 0.8em; margin: 0;">* DATE of Approval by Undergraduate Council</p>	<p style="font-size: 0.8em; margin: 0;">printed name</p>	/	<p style="font-size: 0.8em; margin: 0;">Reported by Undergraduate Council Chair</p>
signature			
<p style="font-size: 0.8em; margin: 0;">* DATE of Approval by Graduate Council</p>	<p style="font-size: 0.8em; margin: 0;">printed name</p>	/	<p style="font-size: 0.8em; margin: 0;">Reported by Graduate Council Chair</p>
signature			
<p style="text-align: center; font-size: 1.2em; margin: 0;">7/15/08</p>	<p style="text-align: center; font-size: 1.2em; margin: 0;">Heidi Anderson</p>	/	
* DATE of Approval by Health Care Colleges Council (HCCC)	printed name	Reported by Health Care Colleges Council Chair	signature
<p style="font-size: 0.8em; margin: 0;">* DATE of Approval by Senate Council</p>	<p style="font-size: 0.8em; margin: 0;">Reported by Office of the Senate Council</p>		
<p style="font-size: 0.8em; margin: 0;">* DATE of Approval by University Senate</p>	<p style="font-size: 0.8em; margin: 0;">Reported by Office of the Senate Council</p>		

[†]If applicable, as provided by the *University Senate Rules*. (<http://www.uky.edu/USC/New/RulesandRegulationsMain.htm>)

CPH 709 Global Health Internship

Course Learning Objectives

This course will provide the opportunity for students to participate in a health-related activity, project or program in a resource-limited setting in a foreign country. This will allow students in the Global Health Certificate Program to gain direct international experience with some relevant, current global health issues, and to integrate and apply knowledge and skills learned in their coursework.

The minimum duration of the internship will be four weeks. The internship will be a 3 credit hours.

Each internship will be unique, depending on the student's background and interest, as well as on the needs and resources of the location where it will be conducted. The main activity and setting of the internship can range from providing primary or specialty direct patient care in a hospital, outpatient or other type of medical setting; prevention, community health or health education activities in schools, neighborhood meetings or other venues; collection of environmental samples from water, soil, food, etc. For students in the colleges of Medicine, Nursing, Dentistry, Pharmacy and Health Sciences, the internship may take the form of a rotation.

Internship placements will require completion of an application to be submitted to and reviewed by the GH certificate director. The internship application shall include a proposed work plan, with activity and learning objectives, and a mentorship plan which should include a UK-GH associate faculty supervisor and a local, qualified mentor or supervisor in the host location. Approval of the internship application will also include consideration of the student's background, interests and language capabilities.

In addition to the field experience, before traveling the student will complete pre-departure orientation and preparation requirements of the Office of International Affairs for students studying and/or working abroad. Upon returning to the U.S., the student must report on his/her experience in the form of a written report, an oral, open presentation or other format and be approved by the UK-GH supervisor, for the completion of his/her internship.

Exceptions:

- With approval of the GH Program director, international students may be able to conduct the internship in a resource-limited or underserved setting in the U.S.
- Reduction of the duration of the internship abroad to less than 4 weeks will be considered only in exceptional cases and will require written approval of the GH Program director.

Funding for travel and living expenses will be responsibility of the student, but the GH Program Director and associate faculty will assist in pursuing travel funds from available sources, such as fellowships, travel awards and financial aid towards study or practice abroad.

APPLICATION FOR NEW COURSE

1. Submitted by the College of Public Health Date: Feb. 13, 2008

Department/Division proposing course: Health Services Management

2. Proposed designation and Bulletin description of this course:

a. Prefix and Number CPH 751

b. Title* Introduction to Global Public Health

*If title is longer than 24 characters, write a sensible title (24 characters or less) for use on transcripts:

c. Courses must be described by at least one of the categories below. Include the number of actual contact hours per week for each category, as applicable.

() CLINICAL () COLLOQUIUM () DISCUSSION () LABORATORY (x) LECTURE
() INDEPEND. STUDY () PRACTICUM () RECITATION () RESEARCH () RESIDENCY
() SEMINAR () STUDIO () OTHER – Please explain: _____

d. Please choose a grading system: Letter (A, B, C, etc.) Pass/Fail

e. Number of credit hours: 3

f. Is this course repeatable? YES NO If YES, maximum number of credit hours: _____

g. Course description:

This course will acquaint students with the major issues and challenges for public health in a variety of wealthy, emerging, and impoverished nations and with the impact of local or regional issues on national and/or global levels.

h. Prerequisite(s), if any:

UK graduate or professional school student status

i. Will this course be offered through Distance Learning? YES NO

If YES, please circle one of the methods below that reflects how the majority of the course content will be delivered:

Internet/Web-based Interactive video Extended campus Kentucky Educational Television (KET/teleweb) Other

Please describe "Other": _____

3. Teaching method: N/A or Community-Based Experience Service Learning Component Both

4. To be cross-listed as: _____
Prefix and Number Signature of chair of cross-listing department

5. Requested effective date (term/year): Fall / 2008

APPLICATION FOR NEW COURSE

6. Course to be offered (please check all that apply): Fall Spring Summer
7. Will the course be offered every year? YES NO
If NO, please explain: _____
8. Why is this course needed?
This course has been offered twice under a Special Topics number and is being converted to a regular freestanding course number. The course name has been changed to reflect the development of a certificate program in Global Health.

-
9. a. By whom will the course be taught? Julia F. Costich
- b. Are facilities for teaching the course now available? YES NO
If NO, what plans have been made for providing them?

10. What yearly enrollment may be reasonably anticipated?
15
-
11. a. Will this course serve students primarily within the department? Yes No
- b. Will it be of interest to a significant number of students outside the department? YES NO
If YES, please explain.
Required part of certificate program in Global Health
-
12. Will the course serve as a University Studies Program course[†]? YES NO
If YES, under what Area? _____
[†]AS OF SPRING 2007, THERE IS A MORATORIUM ON APPROVAL OF NEW COURSES FOR USP.
13. Check the category most applicable to this course:
- traditional – offered in corresponding departments at universities elsewhere
 - relatively new – now being widely established
 - not yet to be found in many (or any) other universities
14. Is this course applicable to the requirements for at least one degree or certificate at UK? Yes No
15. Is this course part of a proposed new program? YES NO
If YES, please name: Certificate program in Global Health
16. Will adding this course change the degree requirements for ANY program on campus? YES NO
If YES[‡], list below the programs that will require this course:

APPLICATION FOR NEW COURSE

[‡]In order to change the program(s), a program change form(s) must also be submitted.

17. The major teaching objectives of the proposed course, syllabus and/or reference list to be used are attached.
18. Check box if course is 400G or 500. If the course is 400G- or 500-level, *you must include a syllabus showing differentiation for undergraduate and graduate students by (i) requiring additional assignments by the graduate students; and/or (ii) the establishment of different grading criteria in the course for graduate students. (See SR 3.1.4)*
19. Within the department, who should be contacted for further information about the proposed new course?

Name: Julia F. Costich Phone: 7-6712 Email: julia.costich@uky.edu

20. Signatures to report approvals:

2-13-08
DATE of Approval by Department Faculty

JULIA F. COSTICH / Julia F Costich 4/24/08
printed name Reported by Department Chair signature

DATE of Approval by College Faculty

[Signature] / 4-21-08
printed name Reported by College Dean signature

* DATE of Approval by Undergraduate Council

/
printed name Reported by Undergraduate Council Chair signature

* DATE of Approval by Graduate Council

/
printed name Reported by Graduate Council Chair signature

7/15/08
* DATE of Approval by Health Care Colleges Council (HCCC)

Heidi Anderson / [Signature]
printed name Reported by Health Care Colleges Council Chair signature

* DATE of Approval by Senate Council

Reported by Office of the Senate Council

* DATE of Approval by University Senate

Reported by Office of the Senate Council

*If applicable, as provided by the *University Senate Rules*. (<http://www.uky.edu/USC/New/RulesandRegulationsMain.htm>)

CPH 751
Introduction to Global Public Health

Course Director:

Julia Field Costich, J.D., Ph.D.
College of Public Health
121 Washington Ave., Rm. 105
257-5678 ext. 82026
257-2821 (fax)
Julia.costich@uky.edu

Course Description

This course will acquaint students with the major issues and challenges for public health in a variety of wealthy, emerging, and impoverished nations and with the impact of local or regional issues on national and global levels.

Course Learning Objectives

1. Discuss important health issues around the globe.
2. Gain insight into the relationship between cultural diversity and health.
3. Gain insight into the relationship between environmental conditions and health.
4. Compare different methods of financing and governing different types of health systems.
5. Compare and contrast the strengths and weaknesses of different health systems.
6. Describe the role of wealth and poverty as determinants of health.
7. Discuss why various tactics and reforms have been successful or unsuccessful in other nations.
8. Describe how the health priorities that are established by donor nations and organizations impact international health issues.
9. Discuss the role of gender in healthcare.
10. Discuss the role of Western development on global healthcare.

Grade elements

Midterm: 25%
Class participation: 10%
Final exam: 25%
Presentations: 40%

Course materials:

Textbook: Merson, Black & Mills: International Public Health, 2d ed. (Jones and Bartlett). A number of supplementary readings will be posted on Blackboard. Each student is responsible for becoming adequately proficient in Blackboard to access all course materials. Assistance for most problems can be found at <http://www.uky.edu/Blackboard/student.html>.

Plagiarism

Quotation without attribution is plagiarism. Quotation from a published source must be noted with an appropriate citation. Quotation from an Internet-based source must be noted with a complete URL and date. Primary web-based materials used in class presentations and written summary should be retained in hard copy until the final class grade is issued. The instructor reserves the right to request inspection of source materials used in graded materials.

Attendance policy

Because this class meets only once a week, students with more than two unexcused absences will have their semester grades lowered by 5 percentage points for every additional absence. For these purposes, an absence is defined as missing one hour or more of the class period without an excuse approved by the instructor.

Communication devices:

Students must *turn off* all pagers, cell phones, etc. in the absence of a compelling need to keep them on during class. If there is a compelling need to use the device, it must be switched to “vibrate” or a similar type of silent notification.

Course Schedule and Reading Assignments

1. Introduction to International Health

Topic: Overview of International Health

Discussion Questions:

1. Why should Americans study international public health?
2. What do you as individuals hope to get out of a class on international health?
3. What health system models are you familiar with?
4. What do you think are the three most important topics in international health? Why?

2. Measures of Health and Disease in Populations

Topics: How population health is measured, comparisons and trends, types of data, strengths and weaknesses

Visiting speaker: Claudia Hopenhayn, Ph.D., Dept. of Epidemiology

Readings:

Textbook: Introduction and Ch. 1

Blackboard postings:

Constitution of the World Health Organization

Murray et al. "Overall Health System Achievement for 191 Countries."

World Health Organization. 11th General Programme of Work.

Discussion questions: page 38.

3. Culture, Behavior and Health

Readings:

Textbook ch. 2

Additional material recommended by visiting speaker

Visiting speaker: Mark Swanson, Ph.D., Dept. of Health Behavior

Discussion Questions:

Be prepared to respond to the questions on page 64.

4. Maternal-Child Health

Readings:

Textbook ch. 3

Blackboard: WHO 2005 Report: Making Every Mother and Child Count

<http://www.who.int/whr/2005/en/>.

Visiting speaker: Thomas L. Young, M.D., FAAP

Discussion Questions: Page 114 *and*

1. Does gender play a role in health access and equity in the United States?
2. How does access to education relate to healthcare for women? Is this different than for men?
3. Why are gender roles important to understanding health status?
4. Why do you think women are responsible for most health-related decisions globally?

5. Infectious Diseases

Topic: The AIDS Pandemic

Readings:

Textbook ch. 4

Blackboard: WHO 3 by 5 campaign report, June 2005

Discussion Questions: In addition to the questions on page 177:

1. How does the AIDS crisis differ in developed and LDC nations?
2. In the U.S. many people argue that AIDS has become a manageable disease with the creation of medicines (“the cocktail”) that can greatly slow the progression of HIV disease. If this is the case, why is AIDS considered such a crisis around the world?
3. What is the best approach to the AIDS crisis – prevention or treatment? Is one or the other more realistic in certain regions, nations, cities, etc.? Should either option be used exclusively?
4. Discuss the role of culture in preventing and treating AIDS.

6. Management and Planning for Public Health

Textbook ch. 12

Discussion Questions: page 594

Visiting speakers: Drs. Ray Hill and Bill Pfeifle, Dept. of Health Services Management

7. Distribute midterm exam

Unintentional Injuries and Violence/Mental Health

Readings:

Textbook chs. 7-8

Blackboard: Projections of Global Mortality and Burden of Disease, 2002-2030

Discussion Questions: pages 347 and 383.

8. Midterm exam due

Aging and Chronic Diseases

Readings:

Textbook ch. 6

Blackboard: Wahdan. “The Epidemiological Transition.” Available online at

<http://www.emro.who.int/publications/emhj/0201/02.htm>

Visiting speaker:

Discussion Questions: page 313

9. Nutrition

Reading:

Textbook ch. 5

Other materials recommended by visiting speaker

Visiting speaker: Deborah Crooks, Ph.D., Dept. of Anthropology
Discussion Questions: page 239.

10. Environmental Health

Readings:

Textbook chs. 9-10

Supplemental materials as recommended by Dr. Brion

Visiting speaker: Gale Brion, Ph.D., Dept. of Preventive Medicine and Environmental Health/Dept. of Environmental Engineering

Discussion Questions: see pages 438 and 505

11. The Design of Health Systems

Readings:

Textbook ch. 11

OECD world health systems materials (handouts)

Visit OECD health website

Discussion Questions: page 547

12. Health and the Economy/Globalization and Public Health

Readings:

Textbook ch. 13

Textbook ch. 15

Blackboard:

World Trade Organization. WTO Agreements and Public Health: A Joint Study by the WHO and the WTO Secretariat. *Executive Summary*. Pages 11-22 and 57-134.

Discussion Questions: pages 638 and 704

13. Global Cooperation in Public Health

Readings:

Textbook ch. 14

Discussion Questions: page 676

Visiting speaker: David L. Cowen, M.D., Dept. of Internal Medicine (retired)

14. In-class presentations; final examination distributed

15. In-class presentations; final exam due

Semester Long Group Assignment Design the Ideal Health System

Overview:

For this exercise, students will be asked to incorporate the information learned throughout the semester to design what they consider to be the “ideal health system” for a specific nation. This project should draw on information taught throughout the semester with regards to health problem identification and management, health system design, service provision, equity, access, and management among other topics. The discussion should cover a minimum of four services (e.g., oral health, maternal-child health, vaccination, primary care) or disease condition targets (e.g., HIV/AIDS, cholera, infant diarrhea, malnutrition). You can choose four service topics, four disease topics, or any combination of the two that fits your country design.

Student Assignment:

For this assignment each group must select a nation and work as a team to design what you consider to be the ideal health system for this nation. Your design should consider the relevant cultural and resource components of the nation for which you are designing. However, you should consider that you are working from a blank slate and current status of the health system should not impact your design. Political factors matter in so much as the political climate needs to support the existence of your design, but not the creation of it. Specific elements that should be included in your design are:

- **Financing:** how will funds be pooled, managed, disbursed? What are the anticipated inputs from national government, state or local government, employer groups, the NGO and charitable sectors, and individuals?
- **Service Provision and Service Mix:** **address a minimum of four services/disease targets as noted in the overview.**
- **Access and Equity:** what strategies will address the needs of rural and low-income populations? Other disadvantaged groups specific to your country?
- **Management and Human Resources:** what mix of physicians, other clinicians, paraprofessionals, etc. will be needed to deliver the services? What types of facilities are currently available and what will need to be developed?

You will be asked to present your design to your classmates in a 15-minute presentation on April 24, 207. This presentation should include a brief justification as to why you feel this model is appropriate for your nation of choice.

**Original concept by Laura Gaydos, Dr.P.H.
Univ. of North Carolina**