

Status: PENDING

PROGRAM REQUEST
Doctor of Philosophy (PhD) in Public Health

Last Updated: Myers, Dena Elizabeth
12/28/2010

Fiscal Unit/Academic Org	School Of Public Health - D2505
Administering College/Academic Group	Public Health
Co-administering College/Academic Group	
Semester Conversion Designation	Converted with minimal changes to program goals and/or curricular requirements (e.g., sub-plan/specialization name changes, changes in electives and/or prerequisites, minimal changes in overall structure of program, minimal or no changes in program goals or content)
Current Program/Plan Name	Public Health
Proposed Program/Plan Name	Doctor of Philosophy (PhD) in Public Health
Program/Plan Code Abbreviation	PUBHLTH-PH
Current Degree Title	Doctor of Philosophy

Credit Hour Explanation

Program credit hour requirements		A) Number of credit hours in current program (Quarter credit hours)	B) Calculated result for 2/3rds of current (Semester credit hours)	C) Number of credit hours required for proposed program (Semester credit hours)	D) Change in credit hours
Total minimum credit hours required for completion of program		120	80.0	80	0.0
Required credit hours offered by the unit	Minimum	104	69.3	68	1.3
	Maximum	120	80.0	80	0.0
Required credit hours offered outside of the unit	Minimum				
	Maximum				
Required prerequisite credit hours not included above	Minimum				
	Maximum				

Program Learning Goals

Note: these are required for all undergraduate degree programs and majors now, and will be required for all graduate and professional degree programs in 2012. Nonetheless, all programs are encouraged to complete these now.

Program Learning Goals

- Students in the PhD degree program are expected to meet the competencies required for the MPH degree in their area of specialization and at an advanced level, but not necessarily those oriented primarily to professional practice. In addition, . . .
- Conduct thorough literature reviews to summarize and evaluate the state of the science regarding new topics in the student's general area or specialization.
- Identify gaps in that literature and formulate research questions designed to address those gaps.
- Formulate hypotheses and design a research study using the appropriate research methods and approaches.
- Prepare a research proposal to address the research question, with attention to study design; subject selection; measurement of variables; methods for sample size determination, data collection, data management/analysis; and interpret results.
- Apply relevant theories and conceptual models to inform and ground research and data analysis.
- Conduct a research study.
- Analyze research data and prepare a publishable manuscript summarizing the results and interpreting the findings.
- Communicate orally and in writing a research study's purpose, methods, results and conclusions to an informed audience.

Assessment

Assessment plan includes student learning goals, how those goals are evaluated, and how the information collected is used to improve student learning. An assessment plan is required for undergraduate majors and degrees. Graduate and professional degree programs are encouraged to complete this now, but will not be required to do so until 2012.

Is this a degree program (undergraduate, graduate, or professional) or major proposal? Yes

Does the degree program or major have an assessment plan on file with the university Office of Academic Affairs? No

DIRECT MEASURES (means of assessment that measure performance directly, are authentic and minimize mitigating or intervening factors)

Classroom assignments

- Embedded testing (i.e. specific questions in homework or exams that allow faculty to assess students' attainments of a specific learning goal)
- Other classroom assessment methods (e.g., writing assignments, oral presentations, oral exams)

Evaluation of a body of work produced by the student

- Practicum, internship or research evaluation of student work
- Portfolio evaluation of student work
- Senior thesis or major project
- Capstone course reports, papers, or presentations
- Performance or gallery display or work

Direct assessment methods specifically applicable to graduate programs

- Candidacy exams
- Research proposals written and grants awarded
- Thesis/dissertation oral defense and/or other oral presentation
- Thesis/dissertation (written document)
- Publications
- Other: Qualifier exam

INDIRECT MEASURES (means of assessment that are related to direct measures but are steps removed from those measures)

Surveys and Interviews

- Student survey
- Alumni survey
- Employer feedback or survey
- Student evaluation of instruction
- Student interviews or focus groups

Additional types of indirect evidence

- Job or post-baccalaureate education placement
- Student or alumni honors/recognition achieved
- Peer review of program
- External program review
- Curriculum or syllabus review
- Grade review
- Outreach participation
- Comparison or benchmarking

- Other: CEPH accreditation; External research funding

USE OF DATA (how the program uses or will use the evaluation data to make evidence-based improvements to the program periodically)

- Meet with students directly to discuss their performance
- Analyze and discuss trends with the unit's faculty
- Analyze and report to college/school
- Analyze and report to accrediting organization
- Make improvements in curricular requirements (e.g., add, subtract courses)
- Make improvements in course content
- Make improvements in course delivery and learning activities within courses
- Make improvements in learning facilities, laboratories, and/or equipment
- Periodically confirm that current curriculum and courses are facilitating student attainment of program goals
- Benchmark against best programs in the field

Program Specializations/Sub-Plans

If you do not specify a program specialization/sub-plan it will be assumed you are submitting this program for all program specializations/sub-plans.

Program Specialization/Sub-Plan Name	Biostatistics (Existing)
Program Specialization/Sub-Plan Goals	<ul style="list-style-type: none"> • Please Note: This specialization is offered by the College of Public Health jointly with the OSU Department of Statistics. Refer to the Department of Statistics program submission for the program goals.
Program Specialization/Sub-Plan Name	Hlth Services Mgt & Policy (Existing)
Program Specialization/Sub-Plan Goals	<ul style="list-style-type: none"> • Summarize public policy processes related to health care, including the creation and implementation of policy and the political aspects of policy. • Describe the types of health care financing methods used by state and federal agencies and private organizations and their implications for health services access, quality and cost. • Describe the organization, governance, and management structure of typical public and private health care delivery systems in the U.S. • Apply techniques of budgeting and financial analysis related to health care delivery and public health programs. • Apply organizational theories and management principles appropriate for managing in health care delivery and public health settings. • Identify key principles involved in leading and sustaining organizational change. • Apply basic principles of ethical analysis to issues related to management and health policy in communities and organizational settings. • Use relevant economic principles to analyze the structure, management, and performance of organizations and the health system. • Communicate effectively with diverse constituencies, both within and external to health services organizations.
Program Specialization/Sub-Plan Name	Hlth Behavior & Hlth Promotion (Existing)

Program Specialization/Sub-Plan Goals

- Explain the history, scope, and philosophical basis of public health education.
- Critically assess the evidence linking behavioral and psychosocial factors to health and illness.
- Apply behavioral and social science theory to the development and implementation of health promotion and disease prevention programs at multiple targets and different levels of intervention (intrapersonal, interpersonal, and community).
- Critically assess the scientific literature describing health promotion interventions.
- Assess and summarize the health-related needs and resources of a defined community.
- Identify mechanisms to secure funding, manage and administer health promotion and disease prevention programs so as to ensure optimal program delivery.
- Design and carry out process evaluation for the improvement of health promotion programs.
- Collaboratively design and carry out outcome evaluations of health promotion programs.
- Apply ethical principles to the planning and evaluation of social and behavioral change efforts.
- Demonstrate cultural competency when planning health promotion and disease prevention activities.
- Recognize the importance of health literacy in creating and/or evaluating health promotion and disease prevention materials.
- Explain how health promotion efforts enable communities to influence their own well-being.
- Anticipate challenges and opportunities in working collaboratively with communities.
- Advocate for social and behavioral science intervention and policies.

Program Specialization/Sub-Plan Name

Epidemiology (Existing)

Program Specialization/Sub-Plan Goals

- Design a survey to examine a public health problem or for use in an epidemiologic investigation.
- Choose the correct analysis for data obtained from an epidemiologic investigation, including data from surveys, matched and unmatched case-control studies, cohort studies, and clinical trials.
- Analyze and interpret data obtained from an epidemiologic investigation, including data from surveys, matched and unmatched case-control studies, cohort studies, and clinical trials.
- Assess confounding and effect modification in data from an epidemiologic investigation.
- Demonstrate familiarity with the basic content and issues in at least two substantive areas of application in epidemiology (e.g., cardiovascular; cancer; chronic disease; infectious disease; injury).
- Identify the natural histories of major types of disease and their relevance to epidemiologic investigations.
- Use appropriate computer software for the management and analysis of epidemiologic data.

Program Specialization/Sub-Plan Name

Environmental Health Science (Existing)

Program Specialization/Sub-Plan Goals

- Explain the significance of the community and workplace environment to public health.
Outline the health threat that natural and anthropogenic contaminants in the environment can pose to population health.
- Compare the fate, transport, and human uptake of chemical and biological agents.
- Explain the physiological factors that influence human exposure and the uptake of chemical and biological environmental agents.
- Identify and explain individual (e.g., genetic, physiologic and psychosocial) and community (social, built, economic, race) susceptibility factors that heighten the risk for populations for adverse health outcomes from environmental hazards.
- Critique and conduct human risk assessments.
- Define, recognize, and explain environmental justice and its significance as a public health issue.
- Use various risk management and risk communication approaches for environmental hazards.
- Summarize the underlying mechanisms of toxicity resulting from exposure to environmental agents.
- Describe federal and state regulatory programs, guidelines and authorities relevant to environmental and occupational health.
- Work with other public health disciplines (e.g., nurses, physicians, veterinarians, epidemiologists, biostatisticians) to address environmental and occupational health concerns.
- Access state, federal, and local resources for assessing environmental and occupational health.
- Compare the principle components and influencing factors in the exposure continuum from source to disease.
- Determine the role of exposure assessment in environmental and occupational health.

Pre-Major

Does this Program have a Pre-Major? No

Attachments

- ATTACHMENT_CPH_LETTER(Final_12-23-10).pdf: CPH Letter + Exec Summary
(Letter from the College to OAA. Owner: Bisesi,Michael Salvatore)
- ATTACHMENT_CPH_PHD(12-23-10).pdf: CPH PhD Info for Degree Specializations
(Program Rationale Statement. Owner: Bisesi,Michael Salvatore)

Comments

- The PhD in Public Health has five specializations. The quarter-based curricula, core and specialized goals (competencies), aligned course learning objectives, and the assessment plan and process were approved by the accreditation organization CEPH. These are completely reflected within the converted semester-based program and specializations. *(by Bisesi,Michael Salvatore on 12/28/2010 11:11 AM)*

Workflow Information

Status	User(s)	Date/Time	Step
Submitted	Bisesi,Michael Salvatore	12/28/2010 11:15 AM	Submitted for Approval
Approved	Ferketich,Amy Kathleen	12/28/2010 11:24 AM	Unit Approval
Approved	Ferketich,Amy Kathleen	12/28/2010 11:30 AM	College Approval
Approved	Myers,Dena Elizabeth	12/28/2010 11:39 AM	GradSchool Approval
Pending Approval	Soave,Melissa A	12/28/2010 11:39 AM	CAA Approval

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TO: OSU Office of Academic Affairs

FROM: Stanley Lemeshow, PhD – Dean
Michael Bisesi, PhD – Senior Associate Dean, Academic Affairs
Amy Ferketich, PhD – Chair, Graduate Studies Committee

DATE: December 23, 2010

RE: Quarter-to-Semester (Q2S) Conversion for the College of Public Health (CPH)

CPH Quarter-Based CPH Degrees and Specializations

The College of Public Health (CPH) currently offers several quarter-based graduate degrees and program specializations, as shown below:

- **Master of Health Administration (MHA) degree (84 quarter credit hours)**
- **Master of Public Health (MPH) degree w/ eight program specializations:**
 - Biostatistics (60 quarter credit hours)
 - Clinical Investigation (60 quarter credit hours)
 - Environmental Health Sciences (60 quarter credit hours)
 - Epidemiology (60 quarter credit hours)
 - Health Behavior & Health Promotion (60 quarter credit hours)
 - Health Services Management & Policy (60 quarter credit hours)
 - Program for Experienced Professionals (60 quarter credit hours)
 - Veterinary Public Health (60 quarter credit hours)
- **Master of Science (MS) degree w/ three program specializations:**
 - Biostatistics (60 quarter credit hours)
 - Environmental Health Sciences (60 quarter credit hours)
 - Epidemiology (60 quarter credit hours)
- **Doctor of Philosophy (PhD) degree w/ five program specializations:**
 - Biostatistics (120 quarter credit hours)
 - Environmental Health Sciences (120 quarter credit hours)
 - Epidemiology (60 quarter credit hours)
 - Health Behavior & Health Promotion (120 quarter credit hours)
 - Health Services Management & Policy (120 quarter credit hours)

CPH Program-Specific and College Accreditation

During 2009-10, the MHA degree was fully reaccredited by the Commission on Accreditation of Healthcare Management Education (CAHME) and the MPH, MS and PhD degrees, via a college-wide self-study and review, were fully reaccredited by the Council on Education for Public Health (CEPH). Both CAHME and CEPH are aware that the courses and programs are undergoing conversion from quarter-to-semester credit hours and schedules with planned implementation summer 2012.

CPH Q2S Conversion: Process

To initiate the process within the college, a CPH Q2S Committee was formed in December 2009 consisting of division chairs and faculty members representing each degree and program specialization plus representation from the CPH Academic Affairs Office of Academic Programs. The committee was chaired by the Senior Associate Dean for Academic Affairs. The committee's major roles were to interpret information conveyed by the OSU Office of Academic Affairs (OAA) and establish the related parameters and work plan for converting the courses and programs at the CPH division-levels. Course and program conversions were drafted, reviewed, revised, finalized and approved by the respective divisions. All course and program information submitted from the five divisions was reviewed and approved by the CPH Graduate Studies Committee and the Senior Associate Dean for Academic Affairs.

CPH Q2S Conversion: Courses

- **Course Titles and Descriptions:** The titles and descriptions of many of the existing courses were changed to better reflect the content without deviating from the original course learning objectives.
- **Course Codes:** The course numbers were changed to comply with the new OSU 4-digit format and categories of levels. Seven-letter alpha codes will precede each number. Refer to the table summary below:

CPH Division	Alpha Code
Biostatistics	PUBHBIO
Environmental Health Sciences	PUBHEHS
Epidemiology	PUBHEPI
Health Behavior & Health Promotion	PUBHHBP
Health Service Management & Policy	PUBHHMP
Interdisciplinary	PUBHLTH

- **Course Learning Objectives:** Due to the recent (2009-10) CEPH and CAHME reaccreditation reviews and full-term approvals, relatively minor modifications were made to the quarter-based curricula, core and specialized goals (competencies), aligned course learning objectives, and assessment plan and process. Indeed, these are completely reflected within the converted semester-based program and specializations.
- **Credit Hour Conversion Factor:** A 0.667 factor with rounding was used to convert from quarter-to-semester credits for approximately 100% of the existing quarter-based didactic courses within the college. For example, quarter-based lecture courses that are 4 quarter credit hours and 40 contact hours were converted to 3 semester credit hours and 45 contact hours. Refer to the table summary below:

Current Number Didactic Courses	Quarter Credit Hours (10 Equivalent Contact Hrs per Credit)	Semester Credit Hours (15 Equivalent Contact Hrs per Credit)	Change in Equivalent Contact Hours per Course
75	4	3	+5
5	3	2	0
2	4	4	+20
2	2	2	0
1	5	3	-5
1 (elective)	2	3	+15
4	2	1.5	+3

Similar conversion was made to the non-didactic courses to establish min/max credits. See table below:

Alpha Code	Numeric Code	Course	Variable Semester Credits		Max Total Semester Credits Allowed	Max Completions Allowed
			Min	Max		
PUBHLTH	6189.01	Gen'l Field Experience	1	6	6	6
PUBHLTH	6189.02	Global Health Field Experience	1	6	6	6
PUBHLTH	7189	Public Health Practicum	1	6	6	6
PUBHLTH	7191	Public Health Internship	1	6	6	6
PUBHLTH	7998	Culminating Project in PH	1	3	6	6
PUBHLTH	8998	Research Pre-Candidacy	1	12	12	12
PUBHLTH	7999	Public Health Thesis Research	1	15	15	15
PUBHLTH	8999	Public Health Dissertation Resch	1	12	99	99
PUBH(3-letter Division)	7899	Division Seminar (Regular)	1	3	9	9
PUBH(3-letter Division)	8899	PhD Seminar	1	3	9	9
PUBH(3-letter Division)	7888	Interdivisional Seminar	1	3	9	9
PUBH(3-letter Division)	X193	Individual Studies	1	4	16	16
PUBH(3-letter Division)	X194	Group Studies	1	3	12	12
PUBH(3-letter Division)	X797	Study at a Foreign Institution	1	6	12	12
PUBH(3-letter Division)	7X50	Special Topics	1	6	12	12

- **New and Discontinued Courses:** Twelve new didactic courses were developed for 2012 implementation. Five existing courses will be discontinued.

CPH Q2S Conversion: Degrees and Program Specializations

- **Degree and Program Specialization Competencies:** Due to the recent (2009-10) CEPH and CAHME reaccreditation reviews and full-term approvals, relatively minor to negligible modifications were made to the quarter-based curricula, core and specialized goals (competencies), aligned course learning objectives, and assessment plan and process. Indeed, current content, etc. are completely reflected within the converted semester-based program and specializations.
- **Titles:** There are no Q2S changes relative to the titles of the degrees or names of the specializations.
- **MHA Degree (no specializations):** The MHA degree currently requires a minimum of 84 quarter credit hours, which is equivalent to 56 semester credit hours. The college decided to change the degree to a minimum requirement of 60 semester credit hours. This represents an equivalent increase of 4 semester credit hours. The rationale was based on the need to meet CAHME requirements, better align with several other accredited MHA degree programs, and provide increased scope and depth of content to better meet the degree core and program specialized competencies.
- **MPH Degree (eight specializations):** The MPH degree currently requires a minimum of 60 quarter credit hours, which is equivalent to 40 semester credit hours. CEPH now requires a minimum of 42 semester credit hours and the college decided to change the degree to a minimum requirement of 45 and maximum requirement of 48 semester credit hours. This represents an equivalent increase of 5-8 semester credit hours from the equivalent quarter credits and is 3 to 6 semester credits higher than the CEPH minimum requirement. The rationale was based on the need to meet CEPH requirements, better align with several other accredited MPH degree programs, and provide increased scope and depth of content to better meet the existing degree core and program specialized competencies.
 - Biostatistics (48 semester credit hours)
 - Clinical Investigation (45 semester credit hours)
 - Environmental Health Sciences (45 semester credit hours)
 - Epidemiology (48 semester credit hours)

- Health Behavior & Health Promotion (45 semester credit hours)
 - Health Services Management & Policy (48 semester credit hours)
 - Program for Experienced Professionals (45 semester credit hours)
 - Veterinary Public Health (45 semester credit hours)
- **MS Degree (three specializations):** The college decided to change the degree to a minimum requirement of 45 and maximum requirement of 48 semester credit hours for the MS degree. This represents an equivalent increase of 5-8 semester credit hours. The rationale was based on the need to better align with several other accredited schools of public health master degree programs, and provide increased scope and depth of content to better meet the existing degree core and program specialized competencies.
 - Biostatistics (48 semester credit hours)
 - Environmental Health Sciences (45 semester credit hours)
 - Epidemiology (48 semester credit hours)
 - **PhD Degree (five specializations):** The PhD in Public Health currently requires a minimum of 120 quarter credit hours, which is equivalent to 80 semester credit hours. For the PhD degree, the college will follow the Q2S baseline requirement of a minimum of 80 semester credit hours established by the Graduate School. However, two of the five specializations, environmental health science and epidemiology, will require 90 semester credit hours and the remaining will require 80 semester credit hours.
 - Biostatistics (80 semester credit hours)
 - Environmental Health Sciences (90 semester credit hours)
 - Epidemiology (90 semester credit hours)
 - Health Behavior & Health Promotion (80 semester credit hours)
 - Health Services Management & Policy (80 semester credit hours)
 - Refer to the table below:

Degree	Specialization	Total Credit	Core Course Credit	Major Course Credit	Elec Course Credit	Prac-ticum Credit	Res Method Credit	Minor Credit	Thesis/Disser-tation Credit
MPH	Biostatistics	48	15	24	4	2, 3	-	-	-
	Clinical Transl Sci	45	16	21	3	2, 3	-	-	-
	Env Hlth Sci	45	15	19	6	2, 3	-	-	-
	Epidemiology	48	16	19-22	5-8	2, 3	-	-	-
	Hlth Behav Promo	45	15	20	4	2, 4	-	-	-
	Hlth Serv Mgt Policy	48	15	21	7	2, 3	-	-	-
	Prog Exper Prof	45	16	12	12	2, 3	-	-	-
Vet Pub Hlth	45	15	15	10	2, 3	-	-	-	
MHA	Health Admin	60	15	37.5	7.5	-	-	-	-
MS	Biostatistics	45	-	30	12	-	-	-	3
	Env Hlth Sci	45	-	36	6	-	-	-	3
	Epidemiology	48	-	38-39	6-7	-	-	-	3
PhD	Biostatistics	80	-	44	15	-	-	6	15
	Env Hlth Sci	90	-	33	6	-	24	12	15
	Epidemiology	90	-	15	15	-	30	15	15
	Hlth Behav Promo	80	-	31	-	-	31	12	6
	Hlth Serv Mgt Policy	80	-	25	7	-	24	15	9

CPH Q2S Conversion: Transition Plan

- The transition from a quarter-based to semester-based curriculum will be relatively straightforward for all the degrees and specializations. During January 2011, the CPH website will have a list of the quarter-based courses and the equivalent semester-based courses so that existing students who will likely still be enrolled beyond spring quarter 2012 can plan their course schedules. Each degree and program will indicate the equivalent semester-based courses required to meet the curriculum requirements specified in students original quarter-based plans of study. (Refer to last bullet for table summary)
- With assistance from their academic advisors, students will be provided with a list of quarter-based courses to complete during the quarters beginning spring 2011 through spring 2012. In relation, they will see the remaining didactic courses that will be offered beginning summer term 2012, when the conversion is implemented, and beyond.
- Students will be informed and the 2011-12 *Student Handbook* will reflect the required semester credit hours to complete the respective programs. Refer to the table summary below :

Degree	Specialization	Equivalent Minimum Semester Credits to Complete for Students Matriculated Prior to Summer 2012	Equivalent Semester Credits to Complete for Students Matriculated Summer 2012 or After
MPH	Biostatistics	42	48
	Clinical Transl Sci	42	45
	Env Hlth Sci	42	45
	Epidemiology	42	48
	Hlth Behav Promo	42	45
	Hlth Serv Mgt Policy	42	48
	Prog Exper Prof	42	45
MHA	Health Admin	56	60
MS	Biostatistics	42	48
	Env Hlth Sci	42	45
	Epidemiology	42	48
PhD	Biostatistics	80	80
	Env Hlth Sci	80	90
	Epidemiology	80	90
	Hlth Behav Promo	80	80
	Hlth Serv Mgt Policy	80	80

- Refer to the table summary below for the converted quarter-to-semester courses:

Quarter	Quarter	Qtr	Semester	Semester	Sem
Course	Title	Credit	Course	Title	Credit
BIOSTAT					
		New	PUBHBIO 2210	Biostatistics for Public Health Research	3
PUBHBIO 601	Statistical Methods for Public Health Practice I	4	PUBHBIO 6200	Statistical Methods for Public Health Practice	4
PUBHBIO 701	Design and Analysis of Studies in the Health Sciences I	4	PUBHBIO 6210	Design and Analysis of Studies in the Health Sciences I	3
PUBHBIO 702	Design and Analysis of Studies in the Health Sciences II	4	PUBHBIO 6211	Design and Analysis of Studies in the Health Sciences II	3
PUBHBIO 703	Problem-Oriented Approach to Biostatistics	4	PUBHBIO 6212	Regression Methods for the Health Sciences	3
PUBHBIO 604	Introduction to SAS for Public Health Students	2	PUBHBIO 6270	Introduction to SAS for Public Health Students	2
PUBHBIO 607	Practical Biostatistics for Biomedical Lab. Researchers	4	PUBHBIO 6280	Practical Biostatistics for Biomedical Lab. Researchers	3
PUBHBIO 793	Individual Studies in Biostatistics	1 to 6	PUBHBIO 7193	Individual Studies in Biostatistics	1 to 4
PUBHBIO 794	Group Studies in Biostatistics	1 to 6	PUBHBIO 7194	Group Studies in Biostatistics	1 to 3
PUBHBIO 606	Applied Logistic Regression	4	PUBHBIO 7220	Applied Logistic Regression	3
PUBHBIO 651	Survey Sampling Methods	4	PUBHBIO 7225	Survey Sampling Methods	3
PUBHBIO 624	Applied Longitudinal Analysis	4	PUBHBIO 7230	Applied Longitudinal Analysis	3
PUBHBIO 605	Applied Survival Analysis	4	PUBHBIO 7235	Applied Survival Analysis	3
PUBHBIO 652	Applied Statistical Analysis with Missing Data	4	PUBHBIO 7240	Applied Statistical Analysis with Missing Data	3
PUBHBIO 786	Biostatistics Consulting Lab	3	PUBHBIO 7245	Biostatistical Collaboration	2
PUBHBIO 750	Special Topics in Biostatistics	1 to 4	PUBHBIO 7250	Special Topics in Biostatistics	1 to 6
PUBHBIO 850	Seminar in Biostatistics	1 to 4	PUBHBIO 7899	Seminar in Biostatistics	1 to 3
PUBHBIO 726	Advanced Longitudinal Data Analysis	4	PUBHBIO 8230	Advanced Longitudinal Data Analysis	3
PUBHBIO 706	Advanced Regression Modeling of Time-to-Event Data	4	PUBHBIO 8235	Advanced Regression Modeling of Time-to-Event Data	3
PUBHBIO 875	Doctoral Seminar in Biostatistics	1 to 4	PUBHBIO 8899	Doctoral Seminar in Biostatistics	1 to 3
PUBHBIO 685	Field Experience in Biostatistics	1 to 8	PUBHLTH 7189	Field Experience in Public Health	2
PUBHBIO 602	Statistical Methods for Public Health Practice II	4	(discontinued)		
PUBHBIO 625	Multi-dimensional Data Analysis Applications from Current Hlth Sci Res	4	(discontinued)		
PUBHBIO 727	Statistical Methods in Toxicological Risk Assessment	4	(discontinued)		
EHS					
PUBHEHS 530	Current Issues in Environmental Health	4	PUBHEHS 2310	Current Issues in Global Environmental Health	3
PUBHEHS 535	Fundamentals of Environmental Health Risk Assessment	4	PUBHEHS 3320	Fundamentals of Environmental Health Risk Assessment	3
PUBHEHS 732	Basic Concepts in Toxicology	4	PUBHEHS 5315	Principles of Toxicology	3
PUBHEHS 794	Climate Change and Human Health	4	PUBHEHS 5320	Climate Change and Human Health	3
PUBHEHS 830	Principles of Occupational Health	4	PUBHEHS 5325	Principles of Occupational Health Science	3
PUBHEHS 731	Principles of Environmental Health	4	PUBHEHS 6310	Principles of Environmental Health Science	3
PUBHEHS 731S	Principles of Environmental Health (PEP students)	4	PUBHEHS 6305	Principles of Environmental Health for Exper. Profession.	3
PUBHEHS 731	Principles of Environmental Health (EHS Students)	4	PUBHEHS 6315	Advanced Environmental Health Science	3
PUBHEHS 730	Global Health and Environmental Microbiology	4	PUBHEHS 6320	Global Health and Environmental Microbiology	3
PUBHEHS 733	Toxicology of Chemical Agents	4	PUBHEHS 7325	Advanced Toxicology	3
PUBHEHS 832	Principles of Exposure Assessment	4	PUBHEHS 7330	Principles of Exposure Assessment	3

Quarter	Quarter	Qtr	Semester	Semester	Sem
Course	Title	Credit	Course	Title	Credit
PUBHEHS 736	Environmental Law and Policy for Public Health	2	PUBHEHS 7340	Environmental Law and Policy for Public Health	3
PUBHEHS 741	Principles of Environmental Management	2	(discontinued)		
PUBHEHS 729	Water Contamination: Sources and Health Impact	4	PUBHEHS 7360	Water Contamination: Sources and Health Impact	3
PUBHEHS 831	Principles of Risk Assessment	4	PUBHEHS 7365	Principles of Risk Assessment	3
PUBHEHS 735	Introduction to Water and Human Health Risk	4	PUBHEHS 7370	Human Health Risk Assess of Envir Microbial Agents	3
PUBHEHS 794	Exposure Science Monitoring Techniques	4	PUBHEHS 7380	Exposure Science Monitoring Techniques	3
PUBHEHS 835	Molecular Techniques for Environmental Health Sciences	5	PUBHEHS 8340	Molecular Techniques for Environmental Health Sciences	3
PUBHEHS 793	Individual Studies in Environmental Health Sciences	1 to 6	PUBHEHS 7193	Individual Studies in Environmental Health Sciences	1 to 4
PUBHEHS 794	Group Studies in Environmental Health Sciences	2 to 5	PUBHEHS 7194	Group Studies in Environmental Health Sciences	1 to 3
PUBHEHS 750	Special Topics in Environmental Health Sciences	1 to 4	PUBHEHS 7350	Special Topics in Environmental Health Sciences	3
PUBHEHS 850	Seminar in Environmental Health Sciences	1 to 4	PUBHEHS 7899	Seminar in Environmental Health Sciences	1 to 3
PUBHEHS 875	Doctoral Seminar in Environmental Health Sciences	1 to 4	PUBHEHS 8899	Doctoral Seminar in Environmental Health Sciences	1 to 3
EPI					
PUBH-EPI 510	Introduction to Epidemiology	4	PUBH-EPI 2410	Introduction to Epidemiology	3
PUBH-EPI 615	Field Epidemiology	3	PUBH-EPI 5411	Outbreak Investigations	2
PUBH-EPI 718	Infectious Diseases in the Developing World	2	PUBH-EPI 5412	Infectious Diseases in the Developing World	2
PUBH-EPI 700	Epidemiology for Experienced Health Professionals	4	PUBH-EPI 6400	Epidemiology for Experienced Health Professionals	3
PUBH-EPI 803	Health Data Sources and Uses	4	PUBH-EPI 6401	Health Data Sources and Uses	3
PUBH-EPI 710	Principles of Epidemiology	4	PUBH-EPI 6410	Principles of Epidemiology	3
PUBH-EPI 704	Biological Basis of Public Health	4	PUBH-EPI 6411	Biological Basis of Public Health	3
PUBH-EPI 795.1	Topics in Clinical and Translational Science	1-2	PUBH-EPI 6413.01	Basic Principles in Clinical and Translational Science	1
PUBH-EPI 795.2	Topics in Clinical and Translational Science	1-2	PUBH-EPI 6413.02	Conducting and Communicating Research in Clinical and Translational Scienc	1
PUBH-EPI 850	Seminar in Epidemiology	1-4	PUBH-EPI 6414	Scientific Writing for Biomedical and Clinical Scientists	1
		New	PUBH-EPI 6430.01	Epidemiology I	3
		New	PUBH-EPI 6430.02	Epidemiology I Lab	1
PUBH-EPI 705	Design and Implementation of Health Surveys	4	PUBH-EPI 6431	Design and Implementation of Health Surveys	3
PUBH-EPI 714	Injury Epidemiology	3	PUBH-EPI 6432	Injury Epidemiology	2
PUBH-EPI 716	Psychiatric Epidemiology	3	PUBH-EPI 6433	Psychiatric Epidemiology	2
PUBH-EPI 717	Tuberculosis: A Public Health Issue	1	PUBH-EPI 6434	Tuberculosis: A Public Health Issue	1
PUBH-EPI 814	Chronic Disease Epidemiology	4	PUBH-EPI 6435	Chronic Disease Epidemiology	3
PUBH-EPI 815	Infectious Disease Epidemiology	4	PUBH-EPI 6436	Infectious Disease Epidemiology	3
PUBH-EPI 816	Cancer Epidemiology	4	PUBH-EPI 6437	Cancer Epidemiology	3
PUBH-EPI 817	Cardiovascular Epidemiology	4	PUBH-EPI 6438	Cardiovascular Disease Epidemiology	3
PUBH-EPI 719		New	PUBH-EPI 6415	Nutrition in Public Health	3
PUBH-EPI 720		New	PUBH-EPI 6439	Genetic Epidemiology	3
PUBH-EPI 820	Reproductive & Perinatal Epidemiology	4	PUBH-EPI 6440	Reproductive & Perinatal Epidemiology	3

Quarter	Quarter	Qtr	Semester	Semester	Sem
Course	Title	Credit	Course	Title	Credit
PUBH-EPI 818	Women's Health Issues	3	PUBH-EPI 6441	Women's Health Issues	3
PUBH-EPI 793	Individual Studies in Epidemiology	1-6	PUBH-EPI 7193	Individual Studies in Epidemiology	1-4
PUBH-EPI 794	Group Studies in Epidemiology	1-6	PUBH-EPI 7194	Group Studies in Epidemiology	1-3
PUBH-EPI 711	Epidemiology I	4	PUBH-EPI 7410.01	Epidemiology II	3
PUBH-EPI 711	Epidemiology I	4	PUBH-EPI 7410.02	Epidemiology II Lab	1
PUBH-EPI 713	Epidemiology in Environmental Health	4	PUBH-EPI 7411	Epidemiology in Environmental Health	3
PUBH-EPI 715	Principles and Procedures for Human Clinical Trials	elective	PUBH-EPI 7412	Principles and Procedures for Human Clinical Trials	3
PUBH-EPI 822	Molecular Epidemiology of Cancer	4	PUBH-EPI 7413	Molecular Epidemiology of Cancer	3
PUBH-EPI 724	Molecular Epidemiology	4	PUBH-EPI 7414	Molecular Epidemiology of Infectious Diseases	3
PUBH-EPI 712	Epidemiology II	4	PUBH-EPI 7430	Epidemiology III	4
PUBH-EPI 810	Epidemiologic Methods	4	PUBH-EPI 7431	Epidemiologic Methods	3
PUBH-EPI 750	Topics in Epidemiology	1-4	PUBH-EPI 7450	Topics in Epidemiology	1-6
PUBH-EPI 850	Seminar in Epidemiology	1-4	PUBH-EPI 7899	Seminar in Epidemiology	1-3
PUBH-EPI 819	Epidemiology of Obesity	4	PUBH-EPI 8411	Epidemiology of Obesity	3
PUBH-EPI 821	Design and Analysis of Group-Randomized Trials	selective	PUBH-EPI 8412	Design and Analysis of Group-Randomized Trials	3
		New	PUBH-EPI 8430	Epidemiology IV	4
		New	PUBH-EPI 8431	Grant Writing in Epidemiology	2
PUBH-EPI 875	Doctoral Seminar in Epidemiology (research methods)	6	PUBH-EPI 8899.01	Doctoral Seminar in Epidemiology (research methods)	1
PUBH-EPI 875	Doctoral Seminar in Epidemiology (teaching)	6	PUBH-EPI 8899.02	Doctoral Seminar in Epidemiology (teaching)	2
HBHP					
PUBH-HBP 520	Role of Behavior in Public Health	4	PUBHHBP 2510	Role of Behavior in Public Health	3
PUBH-HBP 720	Preventing disease and promoting health	4	PUBHHBP 6510	Preventing disease and promoting health	3
PUBH-HBP 750	Special topics in HBHP	1to4	PUBHHBP 7550	Special topics in HBHP	1to6
PUBH-HBP 820	Foundations of HBHP	4	PUBHHBP7528	Foundations of professional practice in HP	3
PUBH-HBP 821	Community health assessment	4	PUBHHBP 7520	Community health assessment	3
PUB-HBP 822	Settings and special populations	4	PUBHHBP7542	Settings and special populations	3
PUBH-HBP 824	Program evaluation in public health	4	PUBHHBP 7532	Program evaluation in public health	3
PUBH-HBP 826	Substance abuse prevention	4	PUBHHBP 7552	Substance abuse prevention	2
PUBH-HBP 827	Program planning and implementation	4	PUBHHBP 7522	Program planning and implementation	3
PUBH-HBP 828	Cancer behavioral science	4	PUBHHBP7554	Cancer behavioral science	2
PUBH-HBP 830	Fundamental determinants of population	4	PUBHHBP 7544	Fundamental determinants of population hea	3
PUBH-HBP 875	Doctoral seminar in HBHP	1	PUBHHBP 8899.01	First year doctoral seminar in HBHP	1
PUBH-HBP 875	Doctoral seminar in HBHP	1	PUBHHBP 8899.02	Second year doctoral seminar in HBHP	1
850	Public Health in Action	New	PUBHHBP7556	Public health in action	2
850	Social-ecological strategies in prevention	New	PUBHHBP7558	Social-ecological strategies in prevention	2

Quarter	Quarter	Qtr	Semester	Semester	Sem
Course	Title	Credit	Course	Title	Credit
850	Health promotion research methods	New	PUBHHBP7534	Research methods in HBHP	3
	Health behavior change theory (master's)	New	PUBHHBP7562	Theoretical approaches to health behavior	2
	Health behavior change theory (doctoral)	New	PUBHHBP8562	Advanced theory of health behavior change	2
HSMP					
PUBHHMP 550	Health Care in America	4	PUBHHMP 4650	United States and International Health Care	3
PUBHHMP 800	Health Care Organization I	4	PUBHHMP 6609	Health Care Organization for Experienced Professionals	3
PUBHHMP 800	Health Care Organization I	4	PUBHHMP 6610	Introduction to Health Care Organization	3
PUBHHMP 800	Health Care Organization I	4	PUBHHMP 6611	Health Care Organization	3
PUBHHMP 801	Health Care Organization II	4	PUBHHMP 7601	Financing for Health Care	3
PUBHHMP 802	Economic Analysis of Health Services	4	PUBHHMP 7602	Economic Analysis of Health Services	3
PUBHHMP 803	Economics of Health Care I	4	PUBHHMP 7603	Economics of Health Care I	3
PUBHHMP 804	Economics of Health Care II	4	PUBHHMP 7604	Economics of Health Care II	3
PUBHHMP 805	Introduction to Health Policy	4	PUBHHMP 7605	Introduction to Health Policy	3
PUBHHMP 805	Introduction to Health Policy	4	PUBHHMP 7606	Applied Health Policy	3
PUBHHMP 823	Financial Management of Public Health Programs	4	PUBHHMP 7607	Financial Management of Public Health Programs	3
PUBHHMP 811	Legal Environment of Health Care	4	PUBHHMP 7611	Law and Ethics in Health Care	3
PUBHHMP 815	Health Services Organizational Management	4	PUBHHMP 7615	Health Services Organizational Management	3
PUBHHMP 817	Leadership in Health Care	4	PUBHHMP 7617	Leadership in Health Care	3
PUBHHMP 820	Health Services Finance I	4	PUBHHMP 7620	Health Services Finance I	3
PUBHHMP 821	Health Services Finance II	4	PUBHHMP 7621	Health Services Finance II	3
PUBHHMP 822	Health Services Financial Decision-Making	4	PUBHHMP 7622	Health Services Financial Decision-Making	1.5
PUBHHMP 824	Economic Evaluation of Health Care Programs and Services	4	PUBHHMP 7624	Economic Evaluation of Health Care Programs and Services	3
PUBHHMP 831	Strategic Management and Program Development	4	PUBHHMP 7631	Strategic Management and Program Development	3
PUBHHMP 840	Disability Policy and Politics	4	PUBHHMP 7640	Mental Health and Disability Policy	3
PUBHHMP 900	Advanced Topics in Health Services Management and Policy	2 to 4	PUBHHMP 7650	Advanced Topics in Health Services Management and Policy	1 to 3
PUBHHMP 870.01	Advanced Studies: General*	4	PUBHHMP 7671	Comparative Health Care Systems	3
PUBHHMP 870.02	Advanced Studies: Clinical Rotations	2	PUBHHMP 7672	Clinical Rotations	1.5
PUBHHMP 870.03	Advanced Studies: Data Analysis	2	PUBHHMP 7673	Understanding Health Care Organization Data	1.5
PUBHHMP 870.04	Advanced Studies: Ethics	2 to 4	PUBHHMP 7674	Ethical Cases in Health Care	1.5
PUBHHMP 870.05	Advanced Studies: Human Resources	2	PUBHHMP 7675	Human Resources Management in Health Care	1.5
PUBHHMP 870.06	Advanced Studies: Marketing	2	PUBHHMP 7676	Health Care Marketing	1.5
PUBHHMP 871	Introduction to Health Services Research	4	PUBHHMP 7678	Approaches to Health Services Research	3
		New	PUBHHMP 7679	Quality and Patient Safety	1.5
PUBHHMP 880	Operations Management for Health Service Organizations	4	PUBHHMP 7680	Operations Management for Health Service Organizations	3
PUBHHMP 881	Topics in Health Services Operations and Management	4	PUBHHMP 7681	Advanced Health Services Operations Management	3

Quarter	Quarter	Qtr	Semester	Semester	Sem
Course	Title	Credit	Course	Title	Credit
PUBHHMP 882	Information Systems for Health Services Organizations	4	PUBHHMP 7682	Information Systems for Health Services Organizations	3
PUBHHMP 870.01	Advanced Studies: General**	3	PUBHHMP 8671	Health Care Outcomes Measurement	2
PUBHHMP 870.07	Advanced Studies: Quantitative Methods	2	PUBHHMP 8677	cancelled	
PUBHHMP 693	Individual Studies in Health Services Management and Policy	1 to 5	PUBHHMP 7193	Individual Studies in Health Services Management and Policy	1 to 3
PUBHHMP 694	Group Studies in Health Services Management and Policy	1 to 5	PUBHHMP 7194	Group Studies in Health Services Management and Policy	1 to 3
PUBHHMP 850	Seminar in Health Service Management and Policy	2 to 4	PUBHHMP 7699	Seminar in Health Services Management and Policy	1 to 3
PUBHHMP 875	Doctoral Seminar in Health Services Management and Policy	2 to 4	PUBHHMP 8899	Doctoral Seminar in Health Services Management and Policy	1 to 3
INTERDISC					
PUBHHLTH 400	Introduction to Public Health	4	PUBHLTH 2010	Introduction to Public Health	3
PUBHHLTH 600	Introduction to Global Health	4	PUBHLTH 6000	Introduction to Global Health	3
PUBHHLTH 670.01	Topics in Applied PH Practice (General)	1 to 4	PUBHLTH 7350.01	Topics in Applied PH Practice (General)	3
PUBHHLTH 670.02	Topics in Applied PH Practice (PH Mgt Leader)	1 to 4	PUBHLTH 7350.02	Topics in Applied PH Practice (PH Mgt Leader)	1 to 3
PUBHHLTH 670.03	Topics in Applied PH Practice (Research Tools)	1 to 4	PUBHLTH 7350.03	Topics in Applied PH Practice (Research Tools)	1 to 3
PUBHHLTH 670.04	Topics in Applied PH Practice (Preparedness)	1 to 4	PUBHLTH 7350.04	Topics in Applied PH Practice (Preparedness)	1 to 3
PUBHHLTH 700	Public Health in Developing Countries	4	PUBHLTH 7000	Public Health in Developing Countries	1 to 3
PUBHHLTH 741	Public Health Organization	4	PUBHLTH 7040	Public Health Organization	3
PUBHHMP 685	Field Experience in (specialization)	1 to 8	PUBHLTH 6189.01	Field Experience in Public Health	1 to 6
		New	PUBHLTH 6189.02	Field Experience in Global Public Health	1 to 6
PUBHHLTH 685	Public Health Practicum	1 to 4	PUBHLTH 7189	Practicum in Public Health	1 to 6
PUBHHMP 785	Culminating Project in Public Health	1 to 8	PUBHLTH 7998	Culminating Project in Public Health	1 to 3
PUBH 799	Research in Public Health	1 to 18	PUBHLTH 7999	Thesis Research in Public Health	1 to 12
PUBH 799	Research in Public Health	1 to 4	PUBHHLTH 8998	Pre-Candidacy Research in Public Health	1 to 12
PUBH 999	Research in Public Health	1 to 18	PUBHLTH 8999	Post-Candidacy Research in Public Health	1 to 12



ATTACHMENTS – Doctor of Philosophy in Public Health (PhD) Degree Program

Quarter-to-Semester (Q2S) Conversion for the College of Public Health (CPH)

Content

- PhD Program Rationale
- Letters and Advisement Guides (w/ Courses) for each of five PhD degree program specializations
- Degree Transition Plan

Program Rationale

During 2009-10, the MPH, MS and PhD degrees, via a college-wide self-study and review, were fully reaccredited by the Council on Education for Public Health (CEPH). The review and approval included the program competencies and aligned course learning objectives. CEPH is aware that the courses and programs are undergoing conversion from quarter-to-semester credit hours and schedules with planned implementation summer 2012.

The Doctor of Philosophy in Public Health (PhD) degree program and the five specializations were converted from the existing CEPH accredited quarter-based curricula and credit hours with relatively minimal changes to goals and/or requirements. Please note that one requirement to be a CEPH accredited school or college of public health is that the PhD degree program offer specializations in at least three core disciplines of public health. OSU CPH offers a PhD with five specializations: Biostatistics, Environmental Health Science, Epidemiology, Health Behavior and Promotion, and Health Services/Administration. Please note that the PhD in Biostatistics is offered jointly with the OSU Department of Statistics and they also submitted Q2S information.

- Doctor of Philosophy in Public Health (PhD) degree w/ five program specializations:
 - Biostatistics
 - Environmental Health Sciences
 - Epidemiology
 - Health Behavior & Health Promotion
 - Health Services Management & Policy
- The PhD degree currently requires a minimum of 120 quarter credit hours, which is equivalent to 80 semester credit hours. For the PhD degree, the college will follow the baseline requirement of a minimum of 80 semester credit hours established by the Graduate School. However, two of the five specializations, environmental health science and epidemiology, will require 90 semester credit hours. The two science- and math-based specializations need to provide increased scope and depth of content to better meet the existing degree core and program specialized competencies. CEPH does not specify the minimum number of semester credits for doctoral degrees.

Letter and PhD-*Biostatistics* Advisement Guide from CPH Division of Biostatistics:



College of Public Health

Division of Biostatistics

TO: OSU Office of Academic Affairs
FROM: Haikady Nagaraja, PhD Chair Division of Biostatistics
DATE: November 1, 2010
RE: Quarter-to-Semester Conversion for the College of Public Health (CPH)

CPH DIVISION NAME: Biostatistics . . . offered jointly via the OSU Department of Statistics

DEGREE TITLE: Doctor of Philosophy in Biostatistics

SPECIALIZATION TITLE: Biostatistics

PROGRAM ACCREDITATION: Council on Education for Public Health (CEPH) for Max Period 2009-2016

SEMESTER CREDIT HOURS REQUIRED and MODIFICATIONS: The PhD in Public Health currently requires a minimum of 120 quarter credit hours, which is equivalent to 80 semester credit hours. The PhD degree Biostatistics specialization will require 80 semester credits to earn the degree specialization.

COURSE and CURRICULUM MODIFICATIONS: Most of the existing quarter-based courses are 4 quarter credit hours and 40 contact hours. The semester-based versions of these courses are predominantly 3 semester credit hours and 45 contact hours. The titles and descriptions of some courses were changed to better reflect the content without deviating from the original course learning objectives. The course numbers were changed to comply with the new 4-digit format and categories of levels.

Advisement Guide for the Applied/Methodology Specialization of the Biostatistics PhD Degree Program

The basic philosophy of the PhD program in biostatistics is to provide trained personnel not only to the academic profession, but also to industry and government. The goal is to develop a student's ability to create new methodologies as well as to address applied questions that arise in the biomedical sciences. Although programs are individually designed to suit the needs of particular students, there is a core curriculum that every student follows. This core curriculum includes courses in theoretical and applied statistics, as well as required coursework in a biological area such as genetics, medicine, or physiology.

Students in the Biostatistics PhD degree program who choose the Applied/Methodology Specialization will be assigned faculty advisers in the College Public Health after they declare their specialization preference during their second year. This document serves as a resource to be used by the student and the adviser in planning the program of study for the Applied/Methodology specialization. For additional information about PhD requirements, students are directed to the College of Public Health (CPH) Student Handbook (available online at <http://cph.osu.edu/academics/handbooks.cfm/>) and to the Graduate School Handbook (available online at <http://www.gradsch.ohio-state.edu/>).

The Applied/Methodology specialization of the Biostatistics PhD program presupposes a mathematical background that includes linear algebra (including matrices) and advanced calculus.

PROGRAM OF STUDY

Required Courses (44 semester credits)

A grade of B- or better is required.

PUBHBIO/STAT Courses (40 semester credits)

PUBHBIO 7245	Biostatistical Collaboration	2 cr
/ STAT 7755		
PUBHBIO 8230	Advanced Longitudinal Data Analysis	3 cr
/ STAT 7470		
PUBHBIO 8235	Advanced Regr Modeling of Time-to-Event Data	3 cr
STAT 6301	Statistical Theory I	4 cr
STAT 6302	Statistical Theory II	4 cr
STAT 6540	Applied Stochastic Processes	3 cr
OR STAT 7540	<i>Theory of Stochastic Processes</i>	
STAT 6615	Design & Analysis of Clinical Trials	2 cr
STAT 6910	Applied Statistics I	4 cr
STAT 6950	Applied Statistics II	4 cr
STAT 7410	Theory of the Linear Model	3 cr
STAT 7430	Generalized Linear Models	3 cr
STAT 7730	Advanced Computational Statistics	3 cr
STAT 6860	Foundations of the Linear Model	2 cr

EPI Course (4 semester credits)

PUBHEPI 6430.01	Epidemiology I	3 cr
PUBHEPI 6430.02	Epidemiology I Lab	1 cr

Cognate/Minor Courses (6 semester credits)

At least 6 semester credits outside of statistics/ biostatistics, in a health-related field, as approved by the student's PhD Examination Committee.

Electives (at least 12 semester credits)

As approved by the student's PhD Examination Committee (generally chosen from courses at the 7000-level and above in PUBHBIO or 6000-level and above in STAT). A grade of B- or better is required.

Suggested Electives

CPH Courses

PUBHBIO 7220	Applied Logistic Regression	3 cr
PUBHBIO 7225	Survey Sampling Methods	3 cr
PUBHBIO 7240	Applied Stat Analysis w/Missing Data	3 cr

STAT Courses

STAT 6550	Stat Analysis of Time Series	2 cr
STAT 6620	Environmental Statistics	2 cr
STAT 6625	Stat Methods for Analyzing Genetic Data	3 cr
STAT 6650	Discrete Data Analysis	2 cr
STAT 7450	Multiple Comparisons Procedures	3 cr

Summer Program

Maximum of 3 semester credits

Note: Students in the Biostatistics PhD program are given the same priority as students in the Statistics PhD program when registering for STAT classes.

REQUIRED HOURS

The doctoral program requires a minimum of 80 semester credits or 50 semester credits beyond a master’s degree. A maximum of 30 semester credits of master’s degree work may be applied to PhD requirements if approved by the faculty adviser.

TRANSFER CREDIT

Transfer credit must be approved by the student’s Advisory Committee and the Graduate Studies Committee. For transfer credit to count towards the 50 post master’s graduate hours required for the PhD, it must be in excess of the master’s degree requirements in a field in which the PhD is awarded at the other institution and it must be course work normally taken by doctoral students at that institution

RESIDENCE REQUIREMENT

In addition to the overall credit requirement, doctoral students must fulfill the following residence requirements after the master’s degree has been earned or after the first 30 semester hours of graduate credit have been completed (for additional information, see the *Graduate School Handbook*):

- A minimum of 24 graduate credit hours must be completed at this university;
- A minimum of two consecutive pre-candidacy semesters or one semester and a summer term with enrollment of at least eight graduate credit hours per semester must be completed while in residence at this university;
- A minimum of six graduate credit hours over a period of at least two semesters or one semester and a summer term must be completed after admission to candidacy.

QUALIFIER I EXAM

Qualifier I is a six-hour closed-book examination given at the end of the May term following completion of the first year of study and, if not passed, may be retaken just prior to the Autumn Semester.

QUALIFIER II EXAM

After passing Qualifier I, the student should elect to follow either the Theory/Methodology or the Applied/Methodology specialization. Those who declare the Applied/Methodology specialization are required to take a four-hour closed book in-class examination and complete a one-day (eight-hour) open book data analysis project in one of the CPH computer labs. The in-class exam covers material presented in the first and second year required courses, with an emphasis on Biostatistics applications. The student should pass this exam in his/her third year.

PhD EXAMINATION COMMITTEE

After passing the Qualifier II, the student chooses a dissertation adviser, who must be a Category P Biostatistics graduate faculty member. After a dissertation adviser is chosen, the student also forms a PhD Examination Committee, consisting of at least four graduate faculty members from the CPH Division of Biostatistics, the Department of Statistics, or other departments consistent with the student's interests. This committee is responsible for approving a Plan of Study to be filed with the Graduate Studies Committee within two semesters after passing Qualifier II.

CANDIDACY EXAMINATION

After completion of all required courses (as specified by the student's PhD Examination Committee), the candidate's PhD Examination Committee will administer and grade a PhD Candidacy Examination. Specific details are available in Appendix G of the *CPH Student Handbook* online at <http://cph.osu.edu/academics/handbooks.cfm/>.

FINAL ORAL EXAMINATION/DISSERTATION PHASE

After passing the Candidacy Exam, the student forms a Dissertation Committee. The student should meet with the committee at least twice a year to report the progress. Once the student has made sufficient progress (as judged by the Dissertation Committee) on his/her dissertation to warrant holding the Final Oral Examination, the Doctoral Draft Approval/Notification of Final Oral Examination form must be filed with the Graduate

School at least two weeks prior to the actual Final Oral Examination/Dissertation Defense. The Dissertation Committee then conducts a two-hour oral examination in which the candidate discusses/defends his/her dissertation.

Students must pass the Final Oral Examination and submit a final, approved copy of the dissertation to the Graduate School within five years of being admitted to candidacy. For more information about the dissertation and the Final Oral Examination, see Section 8.5 of the *CPH Graduate Student Handbook* and Section II.6 of the *Graduate School Handbook*. Detailed instructions for the dissertation are available on the Graduate Schools web site at <http://www.gradsch.ohio-state.edu>.

DISSERTATION CREDITS

Following successful completion of the Candidacy Exam, the Graduate School requires doctoral candidates to maintain continuous enrollment in three (3) graduate credits per semester (except Summer) until they graduate. CPH students typically register for PUBHLTH 8999 credit each semester during which dissertation work is conducted.

ACADEMIC STANDARDS

To remain in good academic standing, graduate students must maintain a minimum 3.0 overall GPA. In addition, a B- or higher must be earned in the required courses. For more details, see Section 11.2 of the *CPH Student Handbook*.

GRADUATION

Students must be enrolled for a minimum of three graduate credits during the semester of graduation. An "Application to Graduate" form (available on the Graduate School's Web site) must be completed by the student, signed by the faculty adviser, and returned to the Office of Academic Programs (OAP) for processing. The deadline for submitting the signed form to OAP is the first Friday of the semester of graduation. Prior to end of the last semester of enrollment, students also are asked to complete an Exit Survey, as explained in Section 13.14 of the CPH Student Handbook.

Letter and PhD-*Environmental Health Science* Advisement Guide from CPH Division of Environmental Health Sciences:



College of Public Health

Division of Environmental Health Sciences

TO: OSU Office of Academic Affairs
FROM: Timothy Buckley, PhD Chair Division of Environmental Health Sciences
DATE: November 1, 2010
RE: Quarter-to-Semester Conversion for the College of Public Health (CPH)

CPH DIVISION NAME: Environmental Health Science

DEGREE TITLE: Doctor of Philosophy in Public Health

SPECIALIZATION TITLE: Environmental Health Science

PROGRAM ACCREDITATION: Council on Education for Public Health (CEPH) for Max Period 2009-2016

SEMESTER CREDIT HOURS REQUIRED and MODIFICATIONS: We have developed a program of study that will require 90 semester credit hours for the PhD degree in Public Health with a specialization in Environmental Health Sciences. The college is following the baseline requirement of a minimum of 80 semester credit hours established by the Graduate School. This represents 10 semester credit hours above the minimum number of credit hours required by the Graduate School, but is relatively consistent with the actual number of equivalent number of quarter credit hours currently required to earn the degree in this specialization. However, a new minimum was set due to the addition of required courses (i.e. Molecular Techniques; Exposure Science Techniques) determined to be very important for a better educated and trained PhD student. The rationale is based on the need to better align with several other PhD degree programs in accredited schools/colleges of public health, and provide increased scope and depth of content to better meet the existing degree core and program specialized competencies for Environmental Health Sciences.

COURSE and CURRICULUM MODIFICATIONS: Most of the existing quarter-based courses are 4 quarter credit hours and 40 contact hours. The semester-based versions of these courses are 3 semester credit hours and 45 contact hours. The titles and descriptions of some courses were changed to better reflect the content without deviating from the original course learning objectives. The course numbers were changed to comply with the new 4-digit format and categories of levels.

Advisement Guide for the PhD Degree Program with a specialization in ENVIRONMENTAL HEALTH SCIENCES

The PhD degree requires a significant program of study and research that qualifies the recipient to work independently and contribute to the advancement of the field of knowledge. The emphasis is on mastery of the field and particularly on the acquisition of research skills as a basis for original work.

Students admitted to the PhD degree program are assigned faculty advisers who will provide guidance throughout the program. This document serves as a resource to be used by the student and the adviser in planning the program of study with a specialization in Environmental Health Science. For additional information about PhD requirements, students are directed to the College of Public Health (CPH) Student Handbook (available online at <http://cph.osu.edu/academics/handbooks.cfm/>) and to the Graduate School Handbook (available online at <http://www.gradsch.osu.edu/>).

PROGRAM OF STUDY

The doctoral program requires a minimum total of 90 semester credits or 60 credits beyond a master's degree. Some of the specified courses may have been included in a prior master's degree. A maximum of 30 semester credits of master's degree work may be applied to PhD requirements if approved by the faculty adviser.

Major Field (33 semester credits)

Required:

PUBHEHS 5315	Principles of Toxicology	3 cr
PUBHEHS 5325	Principles of Occupational Hlth Sci	3 cr
PUBHEHS 6315	Advanced Environmental Hlth Sci	3 cr
PUBHEHS 6320	Global Health & Env Microbiology	3 cr
PUBHEHS 7330	Principles of Exposure Assessment	3 cr
PUBHEHS 7380	Exposure Science Monitoring Techniq	3 cr
PUBHEHS 8340	Molecular Techniques	3 cr
PUBHEHS 8899	Doctoral Seminar in Environmental Health Sciences	3 cr

Select three:

PUBHEHS 5320	Climate Change & Human Health	3 cr
PUBHEHS 7325	Advanced Toxicology	3 cr
PUBHEHS 7360	Water Contamination: Sources and Health Impact	3 cr
PUBHEHS 7365	Principles of Risk Assessment	3 cr
PUBHEHS 8330	Human Hlth Risk Assess Microbiol	3 cr
PUBHEPI 7411	Epidemiology in Environmental Hlth	3 cr

Research Methods (24 semester credits)

PUBHBIO 6210	Design & Analy Studies in Hlth Sci I	3 cr
PUBHBIO 6211	Design & Analy Studies in Hlth Sci II	3 cr
PUBHEPI 6420	Epidemiology I	3 cr
PUBHEPI 7410	Epidemiology II	3 cr

Select one:

PUBHBIO 6212	Regression Methods for Hlth Sci	3 cr
PUBHBIO 7220	Applied Logistic Regression	3 cr
PUBHBIO 7230	Applied Longitudinal Analysis	3 cr

In consultation with their faculty advisers, students select an additional nine semester credits of research course work chosen to complement the student's major, minor, and research interests.

Minor Field (12 semester credits)

Additional credits are required in a minor cognate field that is relevant to the student's research interests. Depending on the student's interests, the minor area may occur within the College of Public Health (e.g., biostatistics or epidemiology) or within other disciplines (e.g., chemistry, microbiology, engineering).

Dissertation (15 semester credits)

PUBHLTH 8998 or 8999	Dissertation	15 cr
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Electives (6 semester credits)

Students choose six credits of electives in consultation with their faculty advisers.

TRANSFER CREDIT

Transfer credit must be approved by the student's Advisory Committee and the Graduate Studies Committee. For transfer credit to count towards the 60 post master's credits required for the PhD, it must be in excess of the master's degree requirements in a field in which the PhD is awarded at the other institution and it must be course work normally taken by doctoral students at that institution.

RESIDENCE REQUIREMENT

In addition to the overall credit requirement, doctoral students must fulfill the following residence requirements after the master's degree has been earned or after the first 30 semester hours of graduate credit have been completed (for additional information, see the *Graduate School Handbook*):

- A minimum of 24 graduate credit hours must be completed at this university;
- A minimum of two consecutive pre-candidacy semesters or one semester and a summer term with enrollment of at least eight graduate credit hours per semester must be completed while in residence at this university;
- A minimum of six graduate credit hours over a period of at least two semesters or one semester and a summer term must be completed after admission to candidacy.

ADVISORY COMMITTEE

The Advisory Committee, which guides the student's program and conducts the Candidacy Examination, is composed of a minimum of four persons meeting the following criteria:

- All committee members must be category P graduate faculty members. Category M graduate faculty members may serve on the committee with approval of the chair of the Environmental Health Sciences division and the Graduate Studies Committee (GSC) chairperson.
- *The major field is represented by two members, including the student's adviser, who must have faculty appointments in Environmental Health Sciences. The adviser's principal appointment must be in the College of Public Health.*
- *The research methods area is represented by one College of Public Health faculty member appropriate for the curriculum of the student.*
- *The minor field is represented by one member appropriate for the curriculum of the student, who must come from outside the Environmental Health Sciences division and may come from outside the College of Public Health.*

Students will work with their advisers to create a tentative curriculum plan during the first semester of enrollment. The complete Advisory Committee must be formed and the student's complete curriculum plan must be approved within two years of enrollment as a PhD student or within one year for students who have received a master's degree in the College of Public Health. In either case, the GSC chairperson must approve the membership of the Advisory Committee and the proposed curriculum (see Doctoral Curriculum Approval Form in Appendix I of the CPH Student Handbook). In addition, the complete curriculum plan must be approved at least one semester before the student attempts the Candidacy Examination.

QUALIFYING EXAMINATION

The EHS Qualifying Examination provides the Division's Graduate Faculty with the means to assess a student's cumulative knowledge of topics and concepts related to courses taken in their completed curricula, abilities to think critically and integrate ideas and concepts, and abilities to reason and communicate in an organized and clear fashion. The EHS Qualifying Examination is a closed-book written exam covering all aspects of the student's EHS curriculum required of all EHS PhD students. The exam is in an essay format to be completed in eight hours within a single day. Additional details about the Qualifying Examination procedures can be found in Appendix G of the *CPH Student Handbook*.

CANDIDACY EXAMINATION

The candidacy examination is a single examination consisting of two parts, a written examination and an oral examination. The Advisory Committee determines when the student is ready to take the Candidacy Examination and makes a recommendation to the chairperson of the GSC. The student must be registered for at least three graduate credits during any semester in which the Candidacy Examination is taken, and must submit a "Doctoral Notification of Candidacy Examination" form to the Graduate School for approval at least two weeks prior to the oral exam. For more information, see Section 8.4 and Appendix G of the CPH Student Handbook.

DISSERTATION COMMITTEE AND PROSPECTUS APPROVAL

Following successful completion of the Qualifying Examination, the student forms a Dissertation Committee as soon as the student and adviser agree that it is appropriate. The Dissertation Committee is composed of no fewer than three Graduate Faculty members of the College. The student's adviser, who must be a Category P member of the Graduate Faculty, serves as chairperson. Additional Graduate Faculty members outside the College may also serve on the Dissertation Committee. The Committee must approve the Dissertation Prospectus and complete the Prospectus Approval Form (see Appendix I of the *CPH Student Handbook*). The student is ordinarily expected to prepare an acceptable draft of the Dissertation Prospectus within one year of admission to candidacy.

DISSERTATION CREDITS

Following successful completion of the Candidacy Exam, the Graduate School requires doctoral students to maintain continuous enrollment in three graduate credits per semester (except Summer) until they graduate. CPH students typically register for PUBHLTH 999 credit each semester during which dissertation work is conducted.

DISSERTATION/FINAL ORAL EXAMINATION

Students must pass a Final Oral Examination on the dissertation and submit a final, approved copy of the dissertation to the Graduate School within five years of being admitted to candidacy. For more information about the dissertation and the Final Oral Examination, see Section 8.5 of the CPH *Student Handbook*. Detailed instructions for the dissertation are available on the Graduate School's web site at <http://www.gradsch.ohiostate.edu>.

ACADEMIC STANDARDS

To remain in good academic standing, students must maintain a minimum 3.0 overall GPA. In addition, a B- or higher must be earned in the specialization courses. No course in which a grade of C- or below is earned may count towards the degree. For more details, see Section 11.2 of the CPH *Student Handbook*.

GRADUATION

Students must be enrolled for a minimum of three graduate credits during the semester or term in which they wish to graduate. An "Application to Graduate" form (available on the Graduate School's Web site) should be completed by the student, signed by the adviser, and returned to the Office of Academic Programs (OAP) for processing. The deadline for submitting the signed form to OAP is the first Friday of the semester of graduation. Prior to graduation, students are asked to complete an Exit Survey, as explained in Section 13.12 of the CPH Student Handbook.

Letter and PhD-*Epidemiology* Advisement Guide from CPH Division of Epidemiology:



College of Public Health
Division of Epidemiology

TO: OSU Office of Academic Affairs
FROM: David Murray, PhD Chair Division of Epidemiology
DATE: November 1, 2010
RE: Quarter-to-Semester Conversion for the College of Public Health (CPH)

CPH DIVISION NAME: Epidemiology

DEGREE TITLE: Doctor of Philosophy in Public Health

SPECIALIZATION TITLE: Epidemiology

PROGRAM ACCREDITATION: Council on Education for Public Health (CEPH) for Max Period 2009-2016

SEMESTER CREDIT HOURS REQUIRED and MODIFICATIONS: 90 semester credit hours . . . For the PhD degree, the college is following the baseline requirement of a minimum of 80 semester credit hours established by the Graduate School. The PhD degree in Epidemiology will require 90 semester credits to earn the degree specialization. This represents 10 semester credit hours above the minimum number of credit hours required by the Graduate School, but is relatively consistent with the actual equivalent number of quarter credit hours currently required to earn the degree in this specialization. However, a new minimum was set due to the addition of required courses determined to be very important for a better educated and trained PhD student. The rationale is based on the need to better align with several other PhD degree programs in accredited schools/colleges of public health, and provide increased scope and depth of content to better meet the existing degree core and program specialized competencies for epidemiology.

COURSE and CURRICULUM MODIFICATIONS: Most of the existing quarter-based courses are 4 quarter credit hours and 40 contact hours. The semester-based versions of these courses are 2, 3 or 4 semester credit hours and 30, 45 and 60 contact hours, respectively. The titles and descriptions of some courses were changed to better reflect the content without deviating from the original course learning objectives. The course numbers were changed to comply with the new 4-digit format and categories of levels.

Advisement Guide for PhD degree program in Public Health with a specialization in **EPIDEMIOLOGY**

Students admitted to the PhD degree program are assigned faculty advisers who will provide guidance throughout the program. This document serves as a resource to be used by the student and the adviser in planning the program of study with a specialization in Epidemiology. For additional information about requirements, students are directed to the College of Public Health (CPH) *Student Handbook* (available online at <http://cph.osu.edu/academics/handbooks.cfm>) and to the *Graduate School Handbook* (available online at <http://www.gradsch.ohio-state.edu/>).

PROGRAM OF STUDY

Required Courses (A grade of B- or better is required)

All PhD students in epidemiology are expected to enter the program with a master's or equivalent in Epidemiology. The doctoral program requires a minimum of 60 semester credits beyond a master's degree for a total of 90 semester credits. Of the 90 credits, a maximum of 30 credits may be given for dissertation research.

Following are the required courses for the PhD curriculum in Epidemiology. Many students will have completed a number of these courses at the master's level before admission to the PhD degree program. Students should work closely with their advisers to develop a tentative curriculum plan during the first quarter of enrollment.

Preliminary Courses (Students may be required to take these courses if they have not taken them or equivalent courses elsewhere)

PUBHBIO 6210	Design Analysis Studies Hlth Sci I	3 cr
PUBHBIO 6211	Design Analysis Studies Hlth Sci II	3 cr
PUBHBIO 6270	SAS Programming	2 cr
PUBHEPI 6430.01	Epidemiology I	3 cr
PUBHEPI 6430.02	Epidemiology I Lab	1 cr
PUBHEPI 6431	Design & Imp of Health Surveys	3 cr
PUBHEPI 7410.01	Epidemiology II	3 cr
PUBHEPI 7410.02	Epidemiology II Lab	1 cr

Major Field (30 semester credits)

Required Courses

PUBHEPI 6411*	Biological Basis of Public Health	3 cr
PUBHEPI 7430	Epidemiology III	4 cr
PUBHEPI 8430	Epidemiology IV	4 cr
PUBHEPI 8899.01	Doctoral Seminar: Research	3 cr
PUBHEPI 8899.02	Doctoral Seminar: Teaching	1 cr

*Required for students who do not have an MD, DVM, or equivalent clinical degree.

Suggested Electives (choose a sufficient number of credits to reach 30 credits for the major field)

PUBHEPI 6415	Nutrition in Public Health	3 cr
PUBHEPI 6432	Epidemiology of Injury	2 cr
PUBHEPI 6433	Psychiatric Epidemiology	2 cr
PUBHEPI 6434	Tuberculosis: A Public Health Issue	2 cr
PUBHEPI 6435	Chronic Disease Epidemiology	3 cr
PUBHEPI 6436	Infectious Disease Epidemiology	3 cr
PUBHEPI 6437	Cancer Epidemiology	3 cr
PUBHEPI 6438	Cardiovascular Disease Epi	3 cr
PUBHEPI 6439	Genetic Epidemiology	3 cr
PUBHEPI 6440	Reproductive and Perinatal Epi	3 cr
PUBHEPI 6441	Women's Health Issues	3 cr
PUBHEPI 7411	Environmental Epidemiology	3 cr
PUBHEPI 7412	Princ & Proc for Human Clin Trials	3 cr
PUBHEPI 7413	Molecular Epi of Cancer	3 cr
PUBHEPI 7414	Molecular Epi of Infectious Disease	3 cr
PUBHEPI 8411	Epidemiology of Obesity	3 cr

Research Methods (30 semester credits)

Required Courses

PUBHBIO 6212	Regression Methods Hlth Sciences	3 cr
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PUBHBIO 7220	Applied Logistic Regression	3 cr
PUBHBIO 7230	Longitudinal Data Analysis	3 cr
PUBHBIO 7235	Applied Survival Analysis	3 cr
PUBHEPI 7431	Epidemiologic Methods	3 cr
STAT 6450	Linear Regression	4 cr

Suggested Electives (choose a sufficient number of credits to reach 30 credits for research methods)

PUBHBIO 7215	Clinical Trials	3 cr
PUBHEPI 8412	Group-Randomized Trials	3 cr

Minor field (15 semester credits)

Dissertation (15 semester credits)

PUBHLTH 8998 or 8999	Dissertation	15 cr
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TRANSFER CREDIT

Transfer credit must be approved by the student's Advisory Committee and the Graduate Studies Committee. For transfer credit to count towards the 60 post master's credits required for the PhD, it must be in excess of the master's degree requirements in a field in which the PhD is awarded at the other institution and it must be course work normally taken by doctoral students at that institution.

RESIDENCE REQUIREMENT

In addition to the overall credit requirement, doctoral students must fulfill the following residence requirements after the master's degree has been earned or after the first 30 semester hours of graduate credit have been completed (for additional information, see the *Graduate School Handbook*):

- A minimum of 24 graduate credit hours must be completed at this university;
- A minimum of two consecutive pre-candidacy semesters or one semester and a summer term with enrollment of at least eight graduate credit hours per semester must be completed while in residence at this university;
- A minimum of six graduate credit hours over a period of at least two semesters or one semester and a summer term must be completed after admission to candidacy.

QUALIFYING EXAMINATION

The Qualifying Examination is taken after completion of the foundational courses in epidemiology and biostatistics (PUBHEPI 6430, 7410, 7430, 8430, 6431, 7431 and PUBHBIO 6210, 6211, 6212). It is intended to indicate whether the student has mastered the material in the foundational courses. Each student may take the Qualifying Examination at most twice. The qualifying examination committee, comprised of faculty in the division, is in charge of administering and grading of the qualifying examination. For a more detailed discussion of Qualifying Examination procedures, see the *CPH Student Handbook*.

CANDIDACY/DISSERTATION COMMITTEE

After successful completion of the Qualifying Exam, students should work with their advisers to identify faculty members who can guide them in their dissertation research. It is the expectation that the student's Committee will work with them after the Qualifying Exam, through the Candidacy Exam and Final Oral Exam. From the time that the Committee is established until the student's Final Oral Examination, the Committee should meet as a group at least twice per year. The student is to circulate a summary of each meeting to the Committee, and submit an annual progress report to the Committee and Division Coordinator.

The Committee must be approved by the GSC chairperson and must be comprised of a minimum of four persons meeting the following criteria:

- *Committee members must be category P graduate faculty members. With approval of the Epidemiology Division Chair and the CPH Graduate Studies Committee (GSC) chairperson, Category M graduate faculty members also may serve on the Committee. At least one of the committee members must have a primary appointment in the Division of Epidemiology.*
- *The major field is represented by two members, including the student's adviser, who must have faculty appointments in Epidemiology.*
- *The research methods area is represented by one College of Public Health faculty member appropriate for the curriculum of the student.*
- *The minor field is represented by one member appropriate for the curriculum of the student, who must come from outside the Epidemiology division and may come from outside the College of Public Health.*

The membership of the Committee and the student's final curriculum plan must be approved within two years of enrollment as a PhD student (or within one year for students who have received a master's degree in the CPH) and at least one semester before the student takes the Candidacy Exam (see Doctoral Curriculum Approval Form in Appendix I of the CPH Student Handbook).

DISSERTATION PROPOSAL APPROVAL

After passing the Qualifying Examination, students should begin working with their Committees to prepare their Dissertation Proposals. The proposal should include the following sections: Introduction, Review of the Literature, Statement of Specific Aims, and Research Design and Methods (i.e., the first four chapters of the dissertation). All members of the Committee should agree that the proposal is sufficiently developed (i.e., that if the research were undertaken as written in the proposal the student would be reasonably likely to have created a body of original work sufficient to grant the PhD) before the Candidacy Exam is given. The final draft of the proposal should be submitted in hard copy format to each Committee member at least one month prior to the scheduled date of the oral portion of the Candidacy Exam.

CANDIDACY EXAMINATION

The Candidacy Examination is a single examination consisting of two parts, a written examination, created and administered by the Committee, and an oral examination. The Advisory Committee determines when the student is ready to take the Candidacy Examination and makes a recommendation to the chairperson of the GSC. The student must be registered for at least three graduate credits during any semester in which the Candidacy Examination is taken, and must submit a "Doctoral Notification of Candidacy Examination" form to the Graduate School for approval at least two weeks prior to the oral exam. For more information, see Section 8.4 and Appendix G of the CPH Student Handbook.

DISSERTATION CREDITS

Following successful completion of the Candidacy Exam, the Graduate School requires doctoral candidates to maintain continuous enrollment in three (3) graduate credit hours per semester (except Summer) until they graduate. CPH students typically register for PUBHEPI 8999 credit each quarter during which dissertation work is conducted.

DISSERTATION/FINAL ORAL EXAMINATION

Students must pass a Final Oral Examination on the dissertation and submit a final, approved copy of the dissertation to the Graduate School within five years of being admitted to candidacy. For more information about the dissertation and the Final Oral Examination, see Section 8.5 of the CPH *Student Handbook* and Section VII of the *Graduate School Handbook*. Detailed instructions for the dissertation are available on the Graduate School's Web site at <http://www.gradsch.osu.edu>.

TIME LIMITS

PhD students specializing in Epidemiology must complete the qualifying exam within three years of matriculation, the candidacy exam within five years of matriculation, and their dissertation within five years of admission to candidacy.

ACADEMIC STANDARDS

To remain in good academic standing, students must maintain a minimum 3.0 overall GPA. In addition, a B- or higher must be earned in the specialization courses and no course in which a grade of C- or below is earned may count towards the degree. For more details, see Section 11.2 of the CPH *Student Handbook*.

GRADUATION

Students must be enrolled for a minimum of three graduate credits during the semester or term in which they plan to graduation. An "Application to Graduate" form (available on the Graduate School's Web site) must be completed by the student, signed by the adviser, and returned to the Office of Academic Programs (OAP) for processing. The deadline for submitting the signed form to OAP each quarter is the first Friday of the semester of graduation. At the end of the final semester of enrollment, students are asked to complete an Exit Survey, as explained in Section 13.14 of the CPH Student Handbook.

Letter and PhD-Health Behavior & Health Promotion Advisement Guide from CPH Division of Health Behavior and Health Promotion:



College of Public Health

Division of Health Behavior and Health Promotion

TO: OSU Office of Academic Affairs
FROM: Phyllis Pirie, PhD Chair Division of Health Behavior and Health Promotion
DATE: November 1, 2010
RE: Quarter-to-Semester Conversion for the College of Public Health (CPH)

CPH DIVISION NAME: Health Behavior and Health Promotion

DEGREE TITLE: Doctor of Philosophy in Public Health

SPECIALIZATION TITLE: Health Behavior and Health Promotion

PROGRAM ACCREDITATION: Council on Education for Public Health (CEPH) for Max Period 2009-2016

SEMESTER CREDIT HOURS REQUIRED and MODIFICATIONS: 80 semester credit hours . . . For the PhD degree, the college is following the baseline requirement of a minimum of 80 semester credit hours established by the Graduate School.

COURSE and CURRICULUM MODIFICATIONS: Most of the existing quarter-based courses are 4 quarter credit hours and 40 contact hours. The semester-based versions of these courses are predominantly 2 or 3 semester credit hours and 30 or 45 contact hours, respectively. The titles and descriptions of some courses were changed to better reflect the content without deviating from the original course learning objectives. The course numbers were changed to comply with the new 4-digit format and categories of levels.

Guide for PhD degree program in Public Health With a specialization in HEALTH BEHAVIOR AND HEALTH PROMOTION

The PhD degree requires a significant program of study and research that qualifies the recipient to work independently and contribute to the advancement of the field of knowledge. The emphasis is on mastery of the field and particularly on the acquisition of research skills as a basis for original work.

This document serves as a resource to be used by the student and adviser in planning the doctoral program with a specialization in Health Behavior and Health Promotion (HBHP). For additional information about PhD requirements, students are directed to the College of Public Health (CPH) Student Handbook (available online at <http://cph.osu.edu/academics/handbooks.cfm>) and to the Graduate School Handbook (available online at <http://www.gradsch.ohio-state.edu/>).

PROGRAM OF STUDY

The doctoral program requires a minimum of 80 semester credits or 50 semester credits beyond a master's degree. Some of the specified courses may have been included in a prior master's degree. A maximum of 30 semester credits of master's degree work may be applied to PhD requirements if approved by the faculty adviser.

Major field (31 semester credits required)

Required courses:

PUBHHBP 7562	Public Health Application of Behavior Change Theory	2 cr
PUBHHBP 8562	Public Health Application of Behavior Change Theory – Advanced	2 cr
PUBHHBP 7193	Research Residency (Indiv Study)	4 cr
PUBHHBP 8899.01	1st Yr Doctoral Seminar in HBHP	2 cr
PUBHHBP 8899.02	2 nd Yr Doctoral Seminar in HBHP	2 cr

Choose additional courses from the major or closely related courses to achieve total requirement of 31 credits.

PUBHHBP 6510	Preventing Disease	3 cr
PUBHHBP 7520	Community Health Assessment	3 cr
PUBHHBP 7542	Settings & Special Populations	3 cr
PUBHHBP 7532	Program Evaluation in Public Health	3 cr
PUBHHBP 7522	Program Planning & Implementation	3 cr
PUBHHBP 7554	Cancer Behavioral Science	2 cr
PUBHHBP 7544	Fundamental Determinants of Health	3 cr
PUBHLTH 6000	Introduction to Global Health	2 cr
PUBHLTH 7556	Public Health in Action	2 cr
PUBHHBP 7558	Social-ecological Strategies in Prev	2 cr
PUBHHBP 7552	Substance abuse prevention	2 cr

Research Methods (31 semester credits required)

Required:

PUBHBIO 6210	Design & Analysis of Studies in the Health Sciences I	3 cr
PUBHBIO 6211	Design & Analysis of Studies in the Health Sciences II	3 cr
PUBHEPI 6420.01	Epidemiology I	3 cr
PUBHEPI 7420.01	Epidemiology II	3 cr
PUBHHBP 7534	Research Methods in HBHP	3 cr

Qualitative Methods:

At least 5 credits in qualitative methods

Quantitative methods:

At least 15 credits in quantitative coursework

Minor field (12 semester credits required)

Dissertation (Minimum 6 semester credits)

PUBHLTH 8999 Post-candidacy Research in Public Health

RESIDENCE REQUIREMENT

In addition to the overall credit requirement, doctoral students must fulfill the following residence requirements after the master's degree has been earned or after the first 30 semester hours of graduate credit have been completed (for additional information, see the *Graduate School Handbook*):

- A minimum of 24 graduate credit hours must be completed at this university;
- A minimum of two consecutive pre-candidacy semesters or one semester and a summer term with enrollment of at least eight graduate credit hours per semester must be completed while in residence at this university;
- A minimum of six graduate credit hours over a period of at least two semesters or one semester and a summer term must be completed after admission to candidacy.

ADVISORY COMMITTEE

The Advisory Committee is comprised of a minimum of four persons meeting the following criteria:

- All committee members must be category P graduate faculty members. Category M graduate faculty members may serve on the committee with approval of the chair of the Health Behavior and Health Promotion division and the Graduate Studies Committee (GSC) chairperson.
- The major field is represented by two members, including the student's adviser, who must have faculty appointments in the division. The adviser's principal appointment must be in the College of Public Health.
- *The research methods area is represented by one College of Public Health faculty member appropriate for the curriculum of the student.*
- *The minor field is represented by one member appropriate for the curriculum of the student, who must come from outside the Health Behavior and Health Promotion division and may come from outside the College of Public Health.*

Students will work with their advisers to create a tentative curriculum plan during the first semester of enrollment. The complete Advisory Committee must be formed and the student's complete curriculum plan must be approved within two years of enrollment as a PhD student or within one year for students who have received a master's degree in the CPH. In either case, the GSC chairperson must approve the membership of the Advisory Committee and the proposed curriculum (see Doctoral Curriculum Approval Form in Appendix I of the CPH Student Handbook). In addition, the complete curriculum plan must be approved at least one semester before the student attempts the Candidacy Examination.

CANDIDACY EXAMINATION

The candidacy examination is a single examination consisting of two parts, a written examination and an oral examination. The Advisory Committee determines when the student is ready to take the Candidacy Examination and makes a recommendation to the chairperson of the Graduate Studies Committee. The student must be registered for at least three graduate credit hours during any semester in which the Candidacy Examination is taken, and must submit a "Doctoral Notification of Candidacy Examination" form to the Graduate School for approval at least two weeks prior to the oral. For more information, see Section 8.4 of the CPH Student Handbook.

DISSERTATION COMMITTEE AND PROSPECTUS APPROVAL

Following successful completion of the Candidacy Examination, the student forms a Dissertation Committee as soon as the student and adviser agree that it is appropriate. The Dissertation Committee is composed of no fewer than three Graduate Faculty members of the College. The student's adviser, who must be a Category P member of the Graduate Faculty, serves as chairperson. Additional Graduate Faculty members outside the College may also serve on the Dissertation Committee. The Committee must approve the Dissertation Prospectus and complete the Prospectus Approval Form (see Appendix I of the *CPH Student Handbook*). The student ordinarily is expected to prepare an acceptable draft of the Dissertation Prospectus within one year of admission to candidacy. For more details on the dissertation proposal and format, see Appendix G of the *CPH Student Handbook*.

DISSERTATION CREDITS

Following successful completion of the Candidacy Exam, the Graduate School requires doctoral students to maintain continuous enrollment in three graduate credit hours per semester (except Summer) until they graduate. Public health students typically register in PUBHLTH 8999 until they graduate.

DISSERTATION/FINAL ORAL EXAMINATION

Students must pass a Final Oral Examination on the dissertation and submit a final, approved copy of the dissertation to the Graduate School within five years of being admitted to candidacy. For more information about the dissertation and the Final Oral Examination, see Section 8.5 of the CPH *Student Handbook*. Detailed instructions for the dissertation are available on the Graduate School's web site at <http://www.gradsch.ohio-state.edu>.

ACADEMIC STANDARDS

To remain in good academic standing, graduate students must maintain a minimum 3.0 overall GPA. In addition, a B- or higher must be earned in the specialization courses. No course in which a grade of C- or below is earned may count towards the degree. For more details, see Section 11.2 of the CPH *Student Handbook*.

GRADUATION

Students must be enrolled for a minimum of three graduate credit hours during the semester or term of graduation. An "Application to Graduate" form (available on the Graduate School's Web site) must be completed by the student, signed by the adviser, and returned to the Office of Academic Programs (OAP) for processing. The deadline for submitting the signed form to OAP is the first Friday of the semester or term of graduation. Prior to graduation, students are asked to complete an Exit Survey, as explained in Section 13.14 of the CPH Graduate Student Handbook.

**Letter and PhD-Health Service Management & Policy Advisement Guide from CPH
Division of Health Service Management and Policy:**



College of Public Health

Division of Health Services Management and Policy

TO: OSU Office of Academic Affairs
FROM: Allard Dembe, DSc Chair Division of Health Service Management and Policy
Thomas Wickizer, PhD Program Coordinator PhD HSMP Program
DATE: November 1, 2010
RE: Quarter-to-Semester Conversion for the College of Public Health (CPH)

CPH DIVISION NAME: Health Service Management and Policy

DEGREE TITLE: Doctor of Philosophy in Public Health

SPECIALIZATION TITLE: Health Service Management and Policy

PROGRAM ACCREDITATION: Council on Education for Public Health (CEPH) for Max Period
2009-2016

SEMESTER CREDIT HOURS REQUIRED and MODIFICATIONS: 80 semester credit hours . . .
For the PhD degree, the college is following the baseline requirement of a minimum of 80 semester
credit hours established by the Graduate School.

COURSE and CURRICULUM MODIFICATIONS: Most of the existing quarter-based courses are 4
quarter credit hours and 40 contact hours. The semester-based versions of these courses are
predominantly 3 semester credit hours and 45 contact hours. The titles and descriptions of some courses
were changed to better reflect the content without deviating from the original course learning objectives.
The course numbers were changed to comply with the new 4-digit format and categories of levels.

Guide for the PhD degree program in Public Health with a specialization in HEALTH SERVICES MANAGEMENT AND POLICY

The PhD degree requires a significant program of study and research that qualifies the recipient to work independently and contribute to the advancement of the field of knowledge. The emphasis is on mastery of the field and particularly on the acquisition of research skills as a basis for original work.

This document serves as a resource to be used by the student and adviser in planning the doctoral program with a specialization in Health Services Management and Policy (HSMP). For additional information about PhD requirements, students are directed to the College of Public Health (CPH) Student Handbook (available online at <http://cph.osu.edu/academics/handbooks.cfm>) and to the Graduate School Handbook (available online at <http://www.gradsch.ohio-state.edu/>).

ADVISER

Each student will be assigned an initial faculty adviser. After the first academic term, the student may switch advisers if he or she desires. The role of the adviser is to assist the student in making course selections, to work with the student to determine the suitability of course waivers, and generally act as an information resource for the student.

PROGRAM OF STUDY

The doctoral program requires a minimum of 80 graduate semester credits or 50 semester credits beyond a master's degree. Of the required hours, a maximum of 20 semester credits may be given for dissertation research. Some of the specified courses may have been included in a prior master's degree. A maximum of 30 semester credits of master's degree work may be applied to PhD requirements if approved by the faculty adviser, course instructor, PhD program director, and Graduate Studies Committee Chair (see Section 10 of *CPH Student Handbook* for more details). For transfer credit to count toward the 50 post-master's graduate credit hours required for the PhD, it must exceed the master's degree requirements in a field in which the PhD is awarded at the other institution and it must be course work normally taken by doctoral students at that institution.

The requisite minimum credits that must be allocated to courses in the major and minor fields and research methods and to the dissertation are specified below. Students must select additional coursework to achieve the required minimum number of total credits (80) after consultation with their advisers and concurrence of the PhD program director.

Major field (25 semester credits minimum)

Required Courses: (must be taken unless the student is granted a waiver for prior coursework)

PUBHHMP 6611	Health Care Organization	3 cr
PUBHHMP 7602	Economic Analysis of Health Services	3 cr
PUBHHMP 7605	Introduction to Health Policy	3 cr
PUBHHMP 7615	Health Services Org Mgmt	3 cr
PUBHHMP 7678	Approaches to Health Services Research	3 cr
PUBHHMP 8899	Doctoral Seminar (2 semesters x 2 cr)	4 cr

Additional Major Courses (choose 6 semester credits minimum to reach 25 credits for the major field)

Additional courses, within the division or elsewhere in the university, representing approaches to health services research or areas of inquiry (e.g., quality and outcomes measurement, economic evaluation, policy analysis, health informatics, health disparities) may be counted toward the 25 semester credit major requirement with adviser approval and concurrence of the PhD program director.

Research Methods (24 semester credits minimum)

Research methods courses must be selected with the approval of the adviser and concurrence of the PhD program director and should include the following.

- Course in epidemiology (e.g., PUBHEPI 6410: Principles of Epidemiology, or equivalent)
- Course in research design (e.g., PUBHHMP 8671: Health Care Outcomes Measurement, or equivalent)
- Appropriate sequence of statistics courses (e.g., PUBHBIO 6210: Design and Analysis of Studies in the Health Sciences I and PUBHBIO 6211: Design and Analysis of Studies in the Health Sciences II, or equivalent and at least 1 additional advanced statistics course)
- 9 semester credits of research courses to complement student's major, minor and research interests (e.g., PUBHEPI 6421: Design & Implementation of Health Surveys, PUBHEPI 6401: Health Data Sources and Uses)

Minor field (15 semester credits minimum)

The minor is a cognate field with sufficient methodological depth to serve as a useful complement and foundation for doctoral level study and research. Typical fields include economics, political science, epidemiology, health behavior and health promotion, public policy and management, etc.

Elective Courses (7 semester credits minimum)

Select electives from courses within the division or elsewhere in the university with adviser approval and concurrence of the PhD program director.

Dissertation (9 semester credits minimum, 20 semester credits maximum)

PUBHLTH 8998 or 8999 Dissertation

ADVISORY COMMITTEE

The Advisory Committee, which guides the student's program and conducts the Candidacy Examination, is composed of a minimum of four persons meeting the following criteria:

- All committee members must be category P graduate faculty members. Category M graduate faculty members may serve on the committee with approval of the HSMP chair and the CPH Graduate Studies Committee (GSC) chairperson.
- *The major field is represented by two members, including the student's adviser, who must have faculty appointments in Health Services Management and Policy. The adviser's principal appointment must be in the College of Public Health.*
- *The research methods area is represented by one College of Public Health faculty member appropriate for the curriculum of the student.*
- *The minor field is represented by one member appropriate for the curriculum of the student, who must come from outside the Health Services Management and Policy division and may come from outside the College of Public Health.*

Students will work with their advisers and the PhD program director to create a tentative curriculum plan during the first semester of enrollment. The complete Advisory Committee must be formed and the student's complete curriculum plan must be approved within two years of enrollment as a PhD student (or within one year for students who have received a master's degree in the CPH). In either case, the GSC chairperson must approve the membership of the Advisory Committee and the proposed curriculum (see Doctoral Curriculum Approval Form in Appendix I of the CPH Student Handbook). In addition, the complete curriculum plan must be approved at least one semester before the student attempts the Candidacy Examination.

RESIDENCE REQUIREMENT

In addition to the overall credit requirement, doctoral students must fulfill the following residence requirements after the master's degree has been earned or after the first 30 semester hours of graduate credit have been completed (for additional information, see the *Graduate School Handbook*):

- A minimum of 24 graduate credit hours must be completed at this university;
- A minimum of two consecutive pre-candidacy semesters or one semester and a summer term with enrollment of at least eight graduate credit hours per semester must be completed while in residence at this university;
- A minimum of six graduate credit hours over a period of at least two semesters or one semester and a summer term must be completed after admission to candidacy.

QUALIFYING AND CANDIDACY EXAMINATIONS

Doctoral students in HSMP take a qualifying examination at the end of the summer session following their first year of studies. This is a four-hour closed book exam over the content normally covered in PUBHHMP 6611, 7602, 7605, 7615, and 7678. The exam is graded on the basis of High Pass, Pass, or Not Pass. The student's Advisory Committee determines when the student is ready to take the Candidacy Examination and makes a recommendation to the chairperson of the Graduate Studies Committee. The Candidacy Examination consists of the submission and grading (High Pass, Pass, Not Pass) of a written Dissertation Prospectus (see Appendix G of the CPG Student Handbook for more details), along with a two-hour oral examination to defend the prospectus and display competency in research methods and the minor. The student must be registered for at least three graduate credit hours during any semester in which the Candidacy Examination is taken, and must submit a "Doctoral Notification of Candidacy Examination" form (available online at <http://www.gradsch.ohio-state.edu>) to the Graduate School for approval at least two weeks prior to the date of the oral examination. For more information, see Section 8.4 of the CPH Student Handbook.

DISSERTATION COMMITTEE

Following successful completion of the Candidacy Examination, the student forms a Dissertation Committee composed of no fewer than three Graduate Faculty members of the College. The student's adviser, who must be a Category P member of the Graduate Faculty, serves as chairperson.

DISSERTATION CREDITS

Following successful completion of the Candidacy Exam, the Graduate School requires doctoral students to maintain continuous enrollment in three (3) graduate credits per semester (except Summer) until they graduate. CPH students typically register for PUBHLTH 8999 credit in each semester during which dissertation work is conducted. With approval of their faculty advisers, students may register for other courses.

DISSERTATION

Students must pass a Final Oral Examination on the dissertation and submit a final, approved electronic copy of the dissertation to the Graduate School within five years of being admitted to candidacy. For more information about the dissertation and the Final Oral Examination, see Section 8.5

of the *CPH Student Handbook* and Section VII of the *Graduate School Handbook*. Detailed instructions for the dissertation are available on the Graduate School's web site at <http://www.gradsch.ohio-state.edu>.

ACADEMIC STANDARDS

To remain in good academic standing, graduate students must maintain a minimum 3.0 overall GPA. In addition, a B- or higher must be earned in the specialization courses and no course in which a grade of C- or below is earned may count towards the degree. For more details, see Section 11.2 of the *CPH Student Handbook*.

GRADUATION

Students must be enrolled for a minimum of three graduate credits during the semester or term of graduation. An "Application to Graduate" form (available on the Graduate School's Web site) must be completed by the student, signed by the adviser, and returned to the Office of Academic Programs (OAP) for processing. The deadline for submitting the signed form to OAP is the first Friday of the semester or term of graduation. Prior to graduation, students are asked to complete an Exit Survey, as explained in Section 13.12 of the CPH Student Handbook.

PhD Transition Plan

- The transition from a quarter-based to semester-based curriculum will be relatively straightforward for the PhD degree program and specializations. During January 2011, the CPH website will have a list of the quarter-based courses and the equivalent semester-based courses so that existing students who will likely still be enrolled beyond spring quarter 2012 can plan their course schedules. Each degree and program will indicate the equivalent semester-based courses required to meet the curriculum requirements specified in students original quarter-based plans of study.
- With assistance from their academic advisors, students will be provided with a list of quarter-based courses to complete during the quarters beginning spring 2011 through spring 2012. In relation, they will see the remaining didactic courses that will be offered beginning summer term 2012, when the conversion is implemented, and beyond.
- Students who are transitioning from quarter-to-semester and who matriculated prior to Summer 2012 will be required to complete the equivalent of 80 semester credits, which are the minimum credits required by the Graduate School.
- Students will be informed and the 2011-12 CPH *Student Handbook* will reflect the curricula to complete the program. Refer to the table summary below:

Degree	Specialization	Equivalent Minimum Semester Credits to Complete for Students Matriculated Prior to Summer 2012	Equivalent Semester Credits to Complete for Students Matriculated Summer 2012 or After
PhD	Biostatistics	80	80
	Env Hlth Sci	80	90
	Epidemiology	80	90
	Hlth Behav Promo	80	80
	Hlth Serv Mgt Policy	80	80