

*University of South Florida College of Public Health
College Catalog
2007/2008 Academic Year*

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Versions

- **Adobe Acrobat Version:** The current version you are reading is the *Official Catalog* for a specified time period. This catalog is effective from July 1, 2007 – June 30, 2008.
- **On-line version:** Available at www.publichealth.usf.edu, the on-line version in HTML format is the most up-to-date version of the University of South Florida College of Public Health Catalog. All approved changes, additions and corrections are incorporated as soon as possible, thus allowing the College to communicate these in a timely manner.

Questions

Please contact advisor@health.usf.edu or call toll-free 888-USF-COPH or 888-873-2674 and press 1 to be transferred to Advising.

Disclaimer

This catalog includes policies, procedures and program descriptions in effect at the time of publication. The College and the University reserve the right to repeal, change, or modify the policies, procedures and program descriptions at any time.

Community & Family Health

Description

The Department of Community and Family Health is a primary resource among academic institutions in the southeastern United States for advancement and dissemination of knowledge pertaining to family and community health issues across the life span, and is a premier choice of students selecting careers in Maternal and Child Health, Health Education and Applied Social and Behavioral Sciences (with emphases in Social Marketing, Behavioral Health Services, Public Health and other specialties).

The Department's mission includes education, research and service to enhance the health promotion and disease and disability prevention status of individuals, families and communities. Its programs assist individuals in developing leadership in the health disciplines that meets the needs of a diverse population. The Department emphasizes interdisciplinary collaboration so that public health responsibilities can be carried out in the context of diverse settings. Required Pre-requisite or Equivalent courses may include: • HSA 4011 Introduction to Public Health (3) • HSC 4554 Survey of Human Disease (3) • HSC 4579 Foundations of Maternal and Child Health (3). Visit the Department web site at <http://publichealth.usf.edu/cfh/>.

Programs Offered Table

Department of Community and Family Health		
Concentrations	Degrees	Notes
Community & Family Health	MSPH PhD	The MSPH and the PhD are degrees that are crafted (with specified requirements) by students with the approval of their committee; thus any concentration offered in the department could be crafted for the MSPH or PhD
Maternal & Child Health	MPH MSPH PhD	
Public Health Education	MPH MSPH PhD	Accelerated entry program available
Behavioral Health	MPH MSPH PhD	
Socio-Health Sciences	MPH MSPH PhD	
Available Certificates		Available Dual Degrees
<ul style="list-style-type: none"> • <u>Social Marketing</u> • <u>Violence and Injury: Prevention and Intervention</u> • <u>Interdisciplinary Women's Health</u> 		<ul style="list-style-type: none"> • <u>Anthropology (MA or PhD)</u> • <u>Medicine (MD)</u> • <u>Social Work (MSW)</u> • <u>Physical Therapy (DPT)</u>

Concentrations

Community & Family Health (MSPH)

Description: The MSPH prepares students for careers oriented toward needs assessment, research and evaluation in community and family health. Graduates are prepared for employment in academic, clinical and other research areas. Each area of specialization and corresponding program of study is developed on an individual basis, guided by the student's interests and areas of expertise in the department. A supervisory committee of three faculty members assists the student in planning appropriate coursework and directing the thesis. This program of study may be especially relevant to students whose future plans include a doctoral degree. Potential areas of specialization for the MSPH may include, but are not limited to one or more of the following fields of study: Social Marketing, Aging, Behavioral Health, Maternal and Child Health, Public Health Education, Women's Health, Global Health, Violence & Injury, Socio-Health Sciences.

In addition to the overall Master of Science in Public Health degree objectives (available at <http://publichealth.usf.edu/msph.html>), *Community & Family Health* graduates will be able to:

1. Critically evaluate the utility of a broad range of theories, which have relevance for research and practice in community and family health.
2. Use concepts and methods from social and behavioral sciences in the design and implementation of community health research and intervention programs.
3. Understand the relationships between psychological, interpersonal, social structural, cultural and biological factors as they impact on disease prevention and health promotion.
4. Critically evaluate scholarly research in community and family health in terms of its theoretical soundness, scientific rigor, appropriate use of concepts and methods, and contribution to knowledge.

Research Skills

1. Conduct needs assessments focused on health behavior change and the social impact of planned health programs.
2. Use qualitative and quantitative research methods for studying the impact of psychological, interpersonal, social structural, cultural and biological factors in the etiology and social consequences of public health problems.
3. Carry out, with faculty supervision, all phases of the research process, including project design, proposal development, data collection, data analysis, and interpretation and writing up of results.
4. Use ethical principles guiding the conduct of research on human subjects.

Practical Applications to Public Health

1. Identify areas in which social and behavioral science expertise can contribute to the design, implementation and evaluation of public health programs.
2. Determine the appropriate level of intervention for different health problems, including individual behavior, family systems, community organization, complex social systems and the social and physical environment.
3. Critically evaluate research and translate it into evidence-based practice and public policy.

Prerequisites

- Public health course prerequisite: None
- Suggested/preferred undergraduate majors: Social or Behavioral Sciences, International Studies, Women Studies, Public Health, Regional Studies (i.e., Latin America and Caribbean) and Health Sciences.
- Prerequisite undergraduate courses: None

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- Work experience: some public health experience preferred but not required
- Minimum undergrad GPA: 3.0 **and**
- Verbal GRE Score: minimum 500
- Quantitative GRE Score: minimum 550
- Other criteria: two letters of recommendations, goal statement

Curriculum or Plan of Study

Please see description of courses in this catalog under the main section: Course Listing

College Core Courses (9 credits)

PHC 6000 Epidemiology (3)

PHC 6050 Biostatistics I (3)

Select one of the following:

PHC 6102 Principles of Health Policy and Management (3)

PHC 6357 Environmental and Occupational Health (3)

PHC 6410 Social and Behavioral Sciences Applied to Health (3)

Specialization Area Courses (12) Depends on area of specialization

Some examples include:

PHC 6931 Advanced Seminar in Social and Behavioral Sciences
Applied To Health (3)

PHC 6413 Family and Community Violence in Public Health (3)

PHC 6418 Public Health and Aging (3)

PHC 6532 Women's Health Issues in Public Health (3)

Research Methods Courses (9)

PHC 6051 Biostatistics II (3)

Two additional research courses related to student's focus area (6)

Electives (8) Examples of common elective options

SYA 6406 Social Problems, Identity, and Community (3)

ANG 6469 Selected Topics in Medical Anthropology (3)

PHC 6536 Population and Community Health (3)

PHC 6411 Introduction to Social Marketing for Public Health (3)

PHC 6708 Evaluation Methods in Community Health (3)

Culminating Experiences

- PHC 6971 Thesis (6 minimum)
- Comprehensive Exam (no credit)

TOTAL CREDITS: 44

Special Admission Requirements - None

Dual Degree(s): None

Community & Family Health Doctor of Philosophy (PhD)

Description: The educational mission of the Department of Community & Family Health is to prepare public health professionals who can meet the challenge of improving the health status of the family and the overall community. Programs offered focus on: (1) the analysis of the health status and needs of a population including social, behavioral and demographic factors and characteristics; (2) health promotion and education; (3) client and community-based intervention strategies; (4) development and evaluation of

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community and family health programs. This program and its faculty provide students with excellent research opportunities in domestic or international arenas through basic and applied research; conducting innovative community-based demonstration programs; providing consultation and technical assistance to agencies and communities; and providing continuing education programs.

The curriculum is a cooperative, learning, research, problem-solving endeavor in which students and faculty contribute interdependently to pursuits essential to the health of human society. The educational process requires active participation and self-direction by the student in pursuit of a type of scholarship and intellectual discipline that remains for life. Scholarship implies the application of a body of knowledge, intellectual curiosity, vision, insight, critical thinking, imagination, analysis and synthesis for the advancement of society.

A graduate from the PhD program will be able to:

- Contribute to the improvement of the health and well being of individuals, families, and communities through intra- and interdisciplinary effort;
- Implement change within the community and public health;
- Conduct basic and applied research in identification, prevention and evaluation of public health problems;
- Teach in University settings; and
- Assume leadership roles at the local, state, national and international levels.

Responsibilities of Doctoral Students: Entering a doctoral degree program is a serious endeavor for both students and faculty. Since students bring a broad spectrum of academic and professional experiences and interests, they are encouraged to shape their doctoral program to meet their individual needs, goals and desires. At the same time the faculty views doctoral study as an endeavor that must meet strict standards to achieve ideals for scholarship and intellectual discipline. It is expected that doctoral students will devote at least two consecutive semesters, preferably in the first year, to full time study.

The degree offered is the Doctor of Philosophy (PhD). With the underpinnings of philosophy, the doctoral degree spans the academic spectrum from strong theoretical bases to practical, experiential methods.

By working in cooperation with faculty and members of the doctoral committee, the student has the responsibility to:

- Take the lead in designing the course of study;
- Devote at least two consecutive semesters, preferably during the first year following admission, to full time study;
- Develop and maintain the understanding that the doctoral program is a serious commitment of time and dedication;
- Participate in intellectual and scholarly activities of the Department;
- Work independently as much as possible;
- Demonstrate continuous progress through the doctoral program from start to finish;
- Respect the many demands that are placed on faculty;
- Be responsible for knowing and adhering to mandatory deadlines, forms, and signature requirements set forth by the department, college, and university;
- Arrange and schedule committee meetings as deemed necessary;
- Be open and receptive to challenges set forth by the doctoral committee; and
- Assume a place in a community of scholars and family of learners.

Responsibilities of the Major Professor: Doctoral studies are a joint effort of the faculty and students. In a very real way, we all learn together. We try to follow the department motto of "A Community of Scholars; A Family of Learners." The faculty tries to create the atmosphere and opportunity for each student to learn and explore new areas of knowledge. However, students must chart their own course, take responsibility for their own learning program, and use the faculty for guidance and support. In the

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Department of Community and Family Health, the faculty are committed to the serious obligation of mentoring and guiding doctoral students through the PhD process. Thus, major professors:

- Advise on curriculum and course selection;
- Assist in selection of committee members;
- Direct the preparation and grading of the qualifying examination;
- Guide and direct the dissertation research;
- Read and edit all drafts of the dissertation in a timely manner;
- Act as a liaison between the student and other committee members as needed;
- Determine when the student is prepared to present the research proposal and dissertation;
- Prepare the student for the format and rigor of the dissertation;
- Introduce students into the community of scholars and family of learners; and
- Mentor students in professional development and pursuit of career goals.

Guidelines for Acceptance to the Doctoral Program

1. Students seeking entrance to the doctoral program must have a career direction in focus. Applicants should have both work experience and educational training of sufficient length and breadth to permit the focus of research efforts in the area of public health from a background of appropriate knowledge. This background may include the following academic preparation and prior experience.
 - A. Education
 1. Prior master's or doctoral degree in a health-related discipline such as: public health, health sciences, behavioral sciences, social sciences, administration, nutrition, health education, nursing, or medicine; or
 2. Another post-baccalaureate degree, such as medicine.
 - B. Experience in one or more of the following areas is desirable.
 1. Clinical practice in a setting appropriate to community and family health interests;
 2. Research such as health statistics, legislative research, program evaluation, private agencies, or as a research associate in an academic setting;
 3. Administration or management in the organization and delivery of public health services; or
 4. Teaching a public health discipline in an academic setting.
2. While no one set of criteria is an absolute prerequisite, the student must come with a background of sufficient depth to enable him or her to function as a mature and self-directed professional in the area of public health. The student should have a clear sense of goals and directions for both the doctoral program of study and future professional endeavors.

Admission Requirements and Criteria:

Follow this link to the College Admission Requirements <http://publichealth.usf.edu/degreereqs.html> . Applicants to the doctoral program in the Department of Community & Family Health should meet the following minimum criteria for admission. However, meeting these criteria shall not be the sole basis for admission.

1. Verbal GRE Score: minimum 480 or an equivalent measure approved by the Department within the last five years preceding application.
2. Quantitative GRE score: minimum 620 or an equivalent measure approved by the Department within the last five years preceding application.
3. Applicants must have achieved a graduate grade point average of 3.0 or better on a four-point scale or its equivalent.
4. Each applicant must submit evidence of written/analytic skills to the College of Public Health. This evidence shall take the form of a recent graduate level term paper, research paper of which the student is sole author, a publication on which the student is first author, or a thesis from a previous graduate degree.

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5. Each applicant must submit a statement detailing the reasons for obtaining a PhD degree in Community and Family Health. The statement must be less than 1000 typed words in length.
6. Each applicant must submit at least three letters of support. These letters must be obtained from individuals who are qualified to judge the academic and professional qualifications of the applicant.

Summary of Steps in the Application Process

1. Complete the USF application which can be downloaded from http://admissions.grad.usf.edu/prospective/Graduate_Application.html and submit as directed. Submit the *COPH Supplementary Information Form* for Application to the PhD Program and submit as directed at the bottom of the form. This form may be downloaded from the list of forms available at <http://publichealth.usf.edu/forms.html>. The deadline for submission is December 15. This deadline applies to the submission of the supplementary data form, evidence of writing/analytic skills, three letters of recommendation as identified above, and any other information to be reviewed by the Student Affairs Committee of the Department. The Department Student Affairs Committee review process includes the following steps:
 - A. Review of the completed application to determine if basic qualifications are met
 - B. Interview with a minimum of three Department faculty members, and usually with the Department Chairperson
 - C. Determination of faculty advisor match and availability of a suitable advisor
 - D. Determination of acceptance based on the following considerations:
 1. Qualifications and experience
 2. Direction and areas of interest
 3. Availability of faculty and resources
 - E. Applicants will be notified of admission status by about April 1. Each applicant must have a member of the graduate faculty of the Department of Community and Family Health agree to serve as advisor before a final admission decision is made.

Admission Schedule: In the Department of Community & Family Health, doctoral students are admitted once per annual cycle with the expectation of beginning course work during the Fall semester. An accepted student may defer admission until the beginning of the next cycle, by written request, with the approval of the Department Chairperson.

Applicants denied admission are given timely notice in writing. Denied applicants who meet the minimum system-wide standards may write to the Chairperson of the Department within 30 days of the date of denial to request reconsideration. The request should explain why reconsideration is warranted, and the student should present additional evidence of potential for academic success at USF.

Upon acceptance to the doctoral program in the Department of Community and Family Health, each student should have an understanding of the criteria required to graduate with the doctoral degree. These criteria include:

1. Full participation in the intellectual life of the Department;
2. Successful completion of prescribed course work;
3. Successful performance on the qualifying examination for doctoral candidacy;
4. Preparation, presentation, and formal approval of a dissertation proposal;
5. Completion of dissertation research activities;
6. Completion of formal and successful oral presentation of the dissertation; and
7. At least two semesters of teaching experience (exceptions to this requirement may be considered based on past experience).

Time Limits for Completion of Doctoral Program: The USF Graduate School requires that all course work taken after admission to the PhD program, and before admission to candidacy, must be completed within 5 academic years. Similarly, once a student is admitted to candidacy, the USF Graduate School

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requires completion of all other requirements for the doctoral degree within a period of 5 academic years. However, the Department of Community and Family Health reserves the right to dismiss a student at any time because of failure to make satisfactory, continuous progress toward completion of the degree. Such action typically follows a review performed by the Department's Student Affairs Committee, and subsequent referral to the Doctoral Committee and the Chair of the Department. Any dismissal action has to be approved by the Chair of the Department, the Dean of the College of Public Health, and the Dean of the Graduate School.

Major Focus Areas of the PhD Program: The Department of Community and Family Health offers a Doctor of Philosophy degree to qualified candidates. Students complete required doctoral level courses, as well as additional courses in the major focus area. The major focus area is identified and developed jointly by the student and the student's program planning committee. The major must be related to one of the academic program areas within the Department of Community and Family Health, although it may involve an interdisciplinary linkage to disciplines outside of the Department.

Doctoral Competencies: Doctoral students successfully completing a program of study in the Department of Community and Family Health (CFH) will possess a defined set of competencies in four areas. These competencies should be used as a guidepost for the student and academic advisory committee in planning a program of study. Competencies can be met through previous academic or work experience, or they can be fulfilled through a combination of planned course work and other scholarly experience. Download the PhD Student Competency Form at: <http://publichealth.usf.edu/forms.html>.

1. Knowledge and Theory
 - A. Describe theory development and analysis
 - B. Contribute knowledge to the theoretical foundations of the CFH disciplines
 - C. Critically evaluate theories and frameworks relevant to public health
 - D. Apply theories in public health to research designs
 - E. Synthesize knowledge from a broad range of disciplines in public health
2. Research Methods
 - A. Formulation of Research Design
 1. Critically analyze theoretical and research literature
 2. Develop conceptual frameworks or models for guiding independent research
 3. Develop research questions and formulate hypotheses
 4. Identify and operationally define study variables
 5. Select appropriate research designs
 6. Investigate possible funding sources
 - B. Data Collection Methods
 1. Select appropriate methods, including quantitative and qualitative methods
 2. Determine the appropriate kinds of sources of data
 3. Develop, test, and validate data collection instruments/protocols
 4. Utilize appropriate communications skills
 - C. Analysis and Interpretation
 1. Assess appropriateness of existing data sets to answer research questions
 2. Analyze and interpret original quantitative and qualitative data
 3. Analyze and interpret existing quantitative and qualitative data sets
 4. Utilize a variety of computer applications when analyzing data
 5. Utilize innovative applications of data analysis techniques
 6. Utilize various validity and reliability measures
 - D. Report Results
 1. Summarize and report findings in a scholarly manner using written and graphic formats

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2. Actively seek out a variety of audiences to disseminate (written and oral) findings
3. Demonstrate the ability to prepare and submit manuscripts for publication
- E. Application of Research to Public Health
 1. Determine the benefits of research findings for public health practice
 2. Value scholarly productivity in public health
 3. Work effectively as a team member on multidisciplinary research projects
 4. Analyze the roles and contributions of various disciplines in collaborative research
 5. Assess the fiscal and administrative issues of implementing research in public health settings
- F. Philosophical and Ethical Considerations
 1. Analyze philosophical and ethical issues in research
 2. Demonstrate ability to protect the privacy and rights of research subjects
 3. Analyze the philosophical aspects of the scientific process as it applies to public health
 4. Develop a personal philosophy related to the scientific process
3. Application and Practice
 - A. Compare and contrast organizational structure of national, state, and local public health systems
 - B. Critically propose and analyze practical solutions to public health problems
 - C. Critically evaluate alternative solutions to public health problems
 - D. Have practical experience with public health settings
 - E. Identify current and future public health policy issues and trends
 - F. Analyze ethical issues in public health practice
 - G. Develop a set of ethical standards for CFH practice
4. Teaching
 - A. Demonstrate college level teaching skills in terms of course design, delivery, and evaluation
 - B. Utilize principles of adult learning in teaching situations
 - C. Assess the role of faculty in academic settings

Teaching Activities: All doctoral students typically make a two-semester commitment to teaching an undergraduate course, or a one-semester commitment to teaching a graduate course. This teaching requirement may only be waived if the student has documented evidence of prior and in-depth teaching experience at the post-secondary level. The student will be asked to submit the course syllabus and teaching evaluations as documentation. Undergraduate teaching should include having primary responsibility for all phases of course development, implementation, and evaluation. Graduate teaching should include having at least partial but significant responsibility for course planning and delivery. Guest lecturing, serving as a teaching assistant, and performing clerical or other course-related work for a faculty member *does not* meet this requirement.

Upon completion of the teaching assignment, the student will have:

- Demonstrated college level teaching skills in terms of course design, delivery and evaluation;
- Utilized principles of adult learning in teaching situations;
- Assessed the role of faculty in academic settings; and
- Gained competency in technology enhanced instruction.

The student, with concurrence of the doctoral committee, must identify the nature and timing of the teaching requirement in the student's plan of study. Once this schedule has been completed, it is up to the student to submit it to the Department Chair. The schedule must be submitted a minimum of one semester prior to when the student plans to teach to allow the Department Chair to make the necessary arrangements for the scheduling.

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During the semester in which the student is teaching, a tuition waiver for 9 credit hours and a stipend are awarded. Any student who is teaching is assigned work space in which to meet with students and secure course materials.

Participation in Departmental Activities: All doctoral students (full-time or part-time) are expected to participate in various Department-organized activities. These activities may include:

- Retreats,
- Seminars and guest lectures,
- Meetings to which doctoral students have been invited,
- Selected off-campus activities, and
- Presentation of proposals and dissertation findings of other doctoral students.

Course Requirements

Prerequisites: These are identified by the major advisor upon admission and include at least Introduction to Public Health, Survey of Human Disease, and the five public health core courses if the student does not possess a previous MPH or MSPH degree. An exception to these prerequisites requires approval of the doctoral program committee and the Chair of the Department.

Plan of Study:

Please see description of courses in this catalog under the main section: Course Listing

Required Department Courses of which at least 15 hours must be at the 7000 level	21
PHC 7405 Theoretical Foundations of Community and Family Health	3
PHC 7152 Policy and Practice in Community and Family Health	3
Selected topics relating to Community Health	3
Selected topics relating to Family Health	3
PHC 7708 Applied Research Methods in Community and Family Health	3
PHC 7709 Case Studies in the Quantitative Analysis of Public Health Data	3
Professionals Skills: At least one of the following courses:	3
PHC 7934 Writing for Scholarly Publication in Health Sciences	
Grant Preparation	
Teaching Methods	
Research Methods	3
A course in Qualitative Research Methods is required	
Focus Area Courses	18
Dissertation	18
Tools of Research: Courses taken to meet the minimal tools of research requirements are not counted toward the degree program. Computer competence and data analysis skills refer to the ability to use the computer to analyze data(e.g. SAS, SPSS, or other sophisticated analytical software.) Minimal statistical competence is Biostatistics II or its equivalent. The program committee evaluates computer competence; specific courses are not required necessarily. The program committee decides if previous work experience fulfills this requirement. Computer-based qualitative analysis can count as applied research, but it does not replace the need for quantitative data analysis. For students who enter the program with one of the above minimum competencies, additional, more advanced course work may be permitted as electives that count towards the 60 program hours.	
Foreign Language: May be required of individual doctoral students whose work necessitates it. Courses taken to meet minimum competency do not count toward the required 60 program hours.	
Minimum Credits: Additional coursework beyond 90 credits may be required of the student as specified in the	90

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plan of study.	
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Recommended / Required Course Sequencing: Unless one is entering the program with public health course deficiencies, all students are expected to take *Theoretical Foundations of Community and Family Health* and *Applied Research Methods in Community and Family Health* during the first semester in the program. The second semester of the first year should include *Selected Topics in Community and Family Health* (to begin meeting the “community” requirement or the “family” requirement), and *Policy and Practice*. The second semester may also include the first in a series of three College-wide interdisciplinary seminars. Coursework during the summer term of the student’s first year should include an additional research methods course (preferably *Qualitative Research Methods*), and the College-wide interdisciplinary seminar. There may be variations to this plan, but departures should be the exception rather than the rule. The Plan of Study should be approved by the doctoral committee. The first semester in the second year of the program is expected to include *Case Studies in the Quantitative Analysis of Public Health Data*.

	Fall	Spring	Summer
Year 1	<ul style="list-style-type: none"> ▪ Theoretical Foundations of CFH ▪ Applied Research Methods in CFH ▪ Third course to be determined 	<ul style="list-style-type: none"> ▪ Qualitative Research Methods ▪ Selected Topics in CFH (Family) ▪ Third course to be determined 	<ul style="list-style-type: none"> ▪ Focus area courses
Year 2	<ul style="list-style-type: none"> ▪ Advanced Seminar in Grant Writing ▪ Focus Area Courses 	<ul style="list-style-type: none"> ▪ Case Studies in Quantitative Analysis ▪ Policy and Practice in CFH ▪ Qualitative Research Methods 	<ul style="list-style-type: none"> ▪ Selected Topics in CFH (Community) ▪ Focus area courses

How and When to Select your Doctoral Program Committee

Doctoral Program Committee: An advisor (major professor) is appointed by the Department for each student upon admission. Upon review of the student’s background and educational objectives, the advisor assists in identifying any specific deficiencies and guides the choice of a program committee, the program of study, and the area of research.

Normally, by the end of the first semester of course work, in collaboration with the major professor, the student will identify and formalize a doctoral program committee to plan the course requirements.

The Department requires that the doctoral committee be comprised of at least four credentialed members of the graduate faculty. More specifically,

1. The Chair must be fully credentialed by the College of Public Health and a faculty member of the Department of Community and Family Health,
2. A minimum of three committee members (including the Chair) must come from the Department of Community and Family Health and all members must be credentialed by the College of Public Health,
3. Other members of the committee should be from outside of the Department,
4. Exceptions to committee membership or changes in membership must be approved by the Department Chair, and
5. Conflicts that arise with your committee that are unresolved may be brought to the Student Affairs Committee.

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The student should complete the *PhD Committee Form* at <http://publichealth.usf.edu/forms> through the signature of the Department Chairperson. Then turn in this form to the Academic Affairs Office room 1150 in the COPH. The Academic Affairs Office will obtain the signature of the Associate Dean and notify you of the status of your form by email.

The Doctoral Committee recommends and ultimately approves the student's course of study and plan for research, grades the written qualifying examination, reads and approves the dissertation proposal, and supervises the dissertation proposal and dissertation presentation meetings.

After the qualifying examination but before the student reaches the dissertation stage, the need for modification in committee membership may be assessed. The membership of the dissertation committee may be the same as that of the doctoral program committee, unless the PhD candidate or major professor recommends a change, and the Department Chair approves it. The form is called the *PhD Change of Committee Form* and is available at <http://www.publichealth.usf.edu/forms>

The doctoral committee may meet at any time to discuss or evaluate the student's progress or to suggest changes in the plan of study. The student also may request a committee meeting. The major professor (doctoral committee chair) may be asked to provide the Department Chair, the Department faculty, or the student with an evaluation of the student's progress toward the degree. On at least an annual basis, all doctoral students will submit an annual progress report to the Department Chair that will be reviewed by the Student Affairs Committee. The format for this report will be provided by the Student Affairs Committee.

How to make changes in your doctoral committee: Occasionally due to changes in the focus of your research or through irresolvable conflicts, it becomes necessary to change the composition of your doctoral committee. Also, one of your committee members may ask to step down from serving on your committee due to a variety of reasons. In either case, the following steps should serve as a guide to facilitate the change process:

1. Obtain *Changes to the Graduate Student Supervisory Committee Form*.
<http://www.publichealth.usf.edu/forms>
2. Make an appointment to inform the committee member that you wish to make changes on your committee. At the meeting, the committee member should sign the form referenced in #1 above, indicating agreement to no longer serve on the committee.
3. Make an appointment to meet with the faculty member who is being added to the committee. The same form is signed by the new committee member.
4. Upon completion of obtaining the two faculty signatures, the student is responsible for obtaining the signature of the Department Chairperson and turning the form in to the Academic Affairs Office. That office will obtain the signature of the Associate Dean for Academics and notify you of the status by email. The student should make two copies (one to keep and one for the major professor).
5. If it is not possible to resolve the differences during the private meeting, schedule a committee meeting with members of the Department's Student Affairs Committee to resolve the grievance.
 - a. At the committee meeting, the student presents the issues surrounding the disagreement. Then, the faculty member has the opportunity to respond to the stated issues. Discussion involving the entire committee will determine recommendations for an equitable resolution. The form is signed at the conclusion of the meeting.
 - b. If the conflict is not resolved at the committee meeting, the Department Chairperson or designated faculty member will be contacted for

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mediation between the two individuals. The Dean would be the next level of grievance resolution.

Qualifying Examination

Purpose of the qualifying examination: *The purpose of the qualifying examination is to move the students into formal candidacy through written demonstration of the knowledge and skills related to his or her specific field, the overall scope of community and family health, and the ability to synthesize and use the professional literature in problem-solving situations.*

Timing of the Examination: The qualifying examination is administered when there is consensus between the doctoral program committee and the student regarding the student's preparation and readiness for the examination. A student is eligible to sit for the qualifying examination when the following minimum criteria have been met.

- The student has successfully completed all or most course work including tools of research;
- There is an agreement between the student and all members of the doctoral committee that the student is prepared to take the qualifying examination; and
- The student must be registered for a minimum of 2 credit hours for the semester in which the qualifying examination is taken.

Candidacy: If passing, the student receives an official Letter of Candidacy from Graduate Studies upon approval of written notification of qualifying examination results. Doctoral students who have completed all degree requirements, and have been admitted to candidacy, are required to register for a minimum of 2 credit hours every semester following admission to candidacy, until the degree is granted.

Dissertation

Committee: The student is ready for the dissertation process after the successful completion of the qualifying examination. The membership of the dissertation committee may be the same as that of the doctoral program committee, unless the PhD candidate or major professor recommends a change, and it is approved by the Department Chair.

- Graduate Studies requires a minimum of four members; however, the Department of Community and Family Health requires the more conventional five-member committee, where three members are in the Department, and two are outside of the Department.
- Members of the doctoral committee must be credentialed by the College of Public Health, and the Chair must be of full graduate faculty status. It is the student's responsibility to verify that each committee member is credentialed. (Note: Even though a faculty member may have "Professor" rank this does not ensure credentialing for doctoral committees.)

Research Proposal: The proposal is presented in a formal meeting to the doctoral committee. This meeting is open to other faculty, other Ph.D. students and other students. At the discretion of the student and the Committee, guests of the student and the general public may be invited. The proposal date is scheduled by common agreement of the student and the doctoral committee members. This date is made known to and approved by the Department Chair. All doctoral students at USF are responsible for making the initial determination as to whether their research will involve human subjects, <http://publichealth.usf.edu/officeresearch/humansubjects.html>, and following all guidelines of the Graduate School.

The purpose of the dissertation proposal presentation is to provide students with the opportunity to present their research, and if appropriate, refine the methods, gather further information and suggestions from the audience at-large. Following the proposal presentation, the committee members convene to make final determination of the appropriateness of the research being proposed and to deliberate recommendations for change in the proposal. This acceptance does

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not preclude the committee from making modifications in the data analysis plan or review of literature at a later date.

Oral Defense: The student's doctoral committee helps guide the student's research and has final approval of the oral examination and the written product. Dissertation Guidelines <http://www.grad.usf.edu/newsite/thesis.asp> appear on the Graduate School website. The student will schedule an oral presentation and provide copies of the dissertation to the Committee and Department Chair within time limits required prior to the presentation. Successful completion of the oral examination is the culminating step of the doctoral program.

Behavioral Health (MPH)

Description: This MPH degree is offered jointly with the USF Louis de la Parte Florida Mental Health Institute with a focus upon behavioral health (mental health and substance abuse) services. This concentration examines community and family issues in evaluation of systems performance and outcomes of public mental health and substance abuse services as well as children's mental health, aging and mental health, HIV and mental health services, and the planning, evaluation and accountability of mental health and substance abuse services.

In addition to the overall Master of Public Health degree objectives, located at <http://publichealth.usf.edu/mph.html>, Behavioral Health graduates will be able to:

- Summarize the history and philosophy of behavioral health services field;
- Relate fundamental principles of epidemiology to incidence of mental and substance use disorders;
- Examine behavioral health programs for cultural and age specific populations;
- Examine ethical issues involved in the care of individuals with mental substance use disorders;
- Acquire general knowledge related to the etiology, prevention, and early intervention of individuals with mental health and substance abuse problems;
- Assess the social, political, and environmental context of behavioral health in relation to public health practice; and
- Critically evaluate the extant literature related to population-based behavioral health research.

Prerequisites

- Public health course prerequisites
 - HSA 4011 Introduction to Public Health (3)
 - HSC 4554 Survey of Human Disease (3)
- Suggested/preferred undergraduate majors: Undergraduate majors may be admitted from a wide range of backgrounds, although majors from the health sciences such as nursing, pre-med and allied health sciences, and from the social and behavioral sciences (psychology, social work, anthropology, educational psychology, and sociology) are especially appropriate.
- Work experience: Work experience in the field of public health, health, psychology, nursing, counseling, education, social work, etc. is considered extremely desirable
- Minimum undergrad GPA 3.0 in upper division course work
- Verbal GRE Score: minimum 500
- Quantitative GRE Score: minimum 550
- Other criteria: Letters of recommendation and career goals statement

Curriculum or Plan of Study

Please see description of courses in this catalog under the main section: Course Listing

College Core Courses (15 credits)

PHC 6000 Epidemiology (3)

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PHC 6050	Biostatistics I (3)
PHC 6102	Principles of Health Policy and Management (3)
PHC 6357	Environmental and Occupational Health (3)
PHC 6410	Social and Behavioral Sciences Applied to Health (3)

Required Courses (12)

PHC 6542	Epidemiology of Mental Disorders (3)
MHS 7740	Survey Course in Planning Evaluation and Accountability (3)
PHC 6543	Foundations in Behavioral Health Systems (3)
PHC 6544	Children's Mental Health Services (3)

Electives (9) Examples of common elective options

PHC 6413	Family & Community Violence in Public Health (3)
PHC 6549	HIV & Mental Health (3)
PHC 6547	Case Management in Community Mental Health (3)
PHC 6550	Community-Based Prevention in Behavioral Health (3)
PHC 6934	Co-Morbidity of Mental & Physical Disorders (3)
PHC 6534	Cultural Competency in Children's Mental Health (3)
PHC 6934	End of Life Care (3)
PHC 6545	Evaluation in Mental Health (3)
PHC 6934	Evidence-Based Practice in Behavioral Health (3)
PHC 6548	Grant Writing in Mental Health (3)
PHC 6401	Homelessness: Implications for Behavioral Healthcare (3)
PHC 6934	Substance Abuse Treatment Services (3)
PHC 6934	Mental Health Informatics (3)
PHC 6934	Financing, Economics, and Policy in Behavioral Health (3)

Culminating Experiences

- PHC 6945 Supervised Field Experience
 - Students with little or no professional experience: 6 hours minimum
 - Students with relevant professional experience: 3 hours minimum
 - Professional experience would include supervised work at a mental health, alcohol, or drug abuse agency in a variety of specialty areas within behavioral health services. These experiences might include work in program planning, program evaluation, community prevention and education, etc.
- PHC 6977 Special Project (3)
- Comprehensive Exam (no credit)

TOTAL CREDITS: 39 plus field experience

Special Admission Requirements: None

Dual Degree(s) Please see dual degree descriptions in this catalog under the main section: Dual Degrees

MPH / MSW Behavioral Health MPH and Social Work MSW

Maternal and Child Health (MPH)

Description: The MPH in Maternal and Child Health prepares health professionals and individuals in related fields for leadership roles in community based organizations that focus on major public health problems of women, children and families, especially among culturally diverse and underserved populations. Using multidisciplinary approaches, students develop analytical, advocacy, programmatic

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and evaluative skills to address health disparities, and to emphasize health promotion and disease prevention among populations in need.

In addition to the overall Master of Public Health degree objectives, located at <http://publichealth.usf.edu/mpg.html>, MCH graduates will be able to:

- Integrate the scientific underpinnings and strength of evidence from literature for addressing MCH issues;
- Analyze MCH problems in terms of time (persistence), magnitude/severity (scope), dispersion/location (place), and co-occurrence/co-morbidity;
- Use basic statistical and graphics software, for MCH data management and analysis, including linkage of data sets;
- Describe appropriate public health programs, laws, regulations, policies and advocacy measures affecting families and children;
- Write a clear and specific MCH policy statement, position paper, and/or testimony appropriate for a specific audience;
- Apply policy analysis techniques to key MCH problems;
- Demonstrate ethical awareness in practice, research, data collection and storage, and program management; and
- Apply public health principles and techniques among specific MCH populations to solve multifaceted problems within the context of culturally diverse settings and community-based MCH programs and systems.

Prerequisites

- Public health courses:
 - HSA 4011 Introduction to Public Health (3)
 - HSC 4579 Foundations of Maternal and Child Health (3)
- Suggested/preferred undergraduate majors: Undergraduate majors may be admitted from a wide range of backgrounds, although majors from the health sciences such as nursing, social work, counseling, pre-med, the natural sciences are desirable.
- Work experience: Work experience in the field of public health, health or natural sciences, counseling, communications, social work, etc. is considered extremely desirable.
- Minimum undergrad GPA: 3.0 in upper division courses **OR**
- Verbal GRE Score: minimum 500
- Quantitative GRE Score: minimum 550
- Other criteria: Letters of recommendation, career goals statement.

Curriculum or Plan of Study

Please see description of courses in this catalog under the main section: Course Listing

College Core Courses (15 credits)

PHC 6000	Epidemiology (3)
PHC 6050	Biostatistics I (3)
PHC 6102	Principles of Health Policy and Management (3)
PHC 6357	Environmental and Occupational Health (3)
PHC 6410	Social and Behavioral Sciences Applied to Health (3)

Required Concentration Courses (18)

PHC 6530	Maternal and Child Health I: Issues and Concepts (3)
PHC 6537	Maternal and Child Health II: Cases Studies in MCH Programs, Policies and Research (3)
PHC 6197	Community Health Data Sources and Technology (3)
PHC 6715	Research Foundations in Public Health (3)

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PHC 6505 Program Planning Methods in Community Health (3)
PHC 6708 Evaluation Methods in Community Health (3)

MCH Support Courses-examples (6)

PHC 6523 Policies and Practices in Maternal and Child Nutrition (3)
PHC 6532 Women's health Issues in Public Health (3)
PHC 6590 Reproductive Health Trends and Issues (3)
PHC 6535 International Maternal and Child Health (3)
PHC 6414 Adolescent Health (3)
PHC 6934 Selected Topics in Maternal Child Health (3)

Electives (0) Examples of common elective options

PHC 6193 Qualitative Methods in Community Health Research (3)
PHC 6411 Introduction to Social Marketing for Public Health (3)
PHC 7708 Applied Research Methods in Community & Family Health (3)
PHC 6701 Computer Applications for Public Health Researchers (3)
PHC XXXX Other courses from the MCH Support Course list above

Culminating Experiences

- PHC 6945 Supervised Field Experience
 - Students with little or no professional experience: 6 hours minimum
 - Students with relevant professional experience: 3 hours minimum
 - An expectation of 2-3 years of experience in an MCH-related clinical background or agency constitutes the term "previous professional experience" worthy of lesser field experience
- PHC 6977 Special Project (3)
- Comprehensive Exam: 2 credit hours of enrollment required.

TOTAL CREDITS: 48-54 Total GPA hours (including Field Experience)

Special Admission Requirements: None

Dual Degree(s) *Please see dual degree descriptions in this catalog under the main section: Dual Degrees*

MPH / MSW	Maternal and Child Health MPH / Social Work MSW
MPH / MD	Maternal and Child Health MPH / Medicine MD
MPH / MA	Maternal and Child Health MPH / Anthropology MA

Socio-Health Sciences (MPH)

Description: The MPH in Socio-Health Sciences prepares students to apply the concepts and methods from social and behavioral sciences to public health research and practice in the areas of community needs assessment, analysis of the sociobehavioral context of health, development of culturally competent programs, evaluation of intervention outcomes, and formulation of social policies affecting health. Graduates are prepared for careers in public health agencies, educational settings, social and family services, private voluntary organizations, research and consulting firms, and health-related industries. Examples of focus areas include social determinants of health, ethnographic and qualitative research, health needs of special populations, and community-based interventions.

In addition to the overall Master of Public Health degree objectives, located at <http://publichealth.usf.edu/mph.html>, *Socio-Health Sciences* graduates will be able to:

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- Critically evaluate and apply a broad range of social and behavioral science theories to analyze public health problems in terms of the factors which influence problem development alternative approaches to their resolution;
- Use concepts and methods from social and behavioral sciences in the design and implementation of community health research and intervention programs;
- Understand the similarities and contrasts in the approaches taken by different social and behavioral science disciplines in the study of health-related problems;
- Exhibit an in-depth understanding of the relationships between individual, interpersonal, social, structural, cultural and biological factors as they impact the etiology and management of illness;
- Critically evaluate scholarly research in social and behavioral sciences applied to health in terms of its theoretical soundness, scientific rigor, appropriate use of concepts and methods, and contribution to knowledge;
- Illustrate the knowledge and skills for translating sociocultural research into socially relevant and culturally competent public health intervention programs;
- Understand ethical principles guiding the conduct of research on human subjects, including principles for ethical decision-making beyond the regulatory purview of institutional review boards;
- Determine the appropriate level of intervention for different health problems, including individual behavior, family systems, community organization, complex social systems and the social and physical environment; and
- Identify situations requiring multidisciplinary (including Sociobehavioral) approaches to research and intervention on public health problems, and familiarity with the process of collaboration and integration of multiple perspectives.

Prerequisites

- Suggested/preferred undergraduate majors: Undergraduate majors may be admitted from a wide range of backgrounds, although majors from the social and behavioral sciences (psychology, sociology, social work, anthropology, education) and the health sciences (nursing, pre-med, allied health) are especially appropriate.
- Prerequisite undergraduate courses: There are no prerequisites that are required, although courses from the above list of undergraduate majors are desirable.
- Work experience: Work experience in the field of public health, health, psychology, nursing, counseling, education, social work, etc. is considered extremely desirable
- Minimum undergrad GPA 3.0 in upper division course work
- Verbal GRE Score: minimum 500
- Quantitative GRE Score: minimum 550
- Other criteria: Letters of recommendation and career goals statement

Curriculum or Plan of Study

Please see description of courses in this catalog under the main section: Course Listing

College Core Courses (15 credits)

PHC 6000	Epidemiology (3)
PHC 6050	Biostatistics I (3)
PHC 6102	Principles of Health Policy and Management (3)
PHC 6357	Environmental and Occupational Health (3)
PHC 6931	Advanced Seminar in Social and Behavioral Sciences Applied to Health (3)

Concentration Area Required Courses (12)

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PHC 6934	Social Determinants of Health (3)
PHC 6XXX	Health Disparities, Diversity, and Cultural Competence (3)
PHC 6715	Research Foundations in Public Health (3)
PHC 6505	Program Planning Methods in Community Health (3)

Suggested Support Courses (Select 3 to equal 9 credits)

PHC 6193	Qualitative Methods in Community Health Research (3)
SYA 6204	Social Problems, Identity and Community
PHC 6413	Family & Community Violence in Public Health (3)
PHC 6418	Public Health and Aging (3)
PHC 6419	Global Issues in Community & Family Health (3)
ANG 6469	Selected Topics in Medical Anthropology (3)
PHC 6505	Health Education Program Planning (3)
PHC 6532	Women's Health Issues in Public Health (3)
PHC 6534	Cultural Competency in Children's Mental Health (3)
PHC 6536	Population and Community Health (3)
PHC 6543	Foundations in Behavioral Health Systems (3)
PHC 7417	Family Systems and Public Health (3)

Culminating Experiences

- PHC 6945 Supervised Field Experience
- Students with little or no professional experience: 6 hours minimum
- Students with relevant professional experience: 3 hours minimum
- Professional experience would include supervised work at a mental health, alcohol, or drug abuse agency in a variety of specialty areas within behavioral health services. These experiences might include work in program planning, program evaluation, community prevention and education, etc.
- PHC 6977 Special Project (3)
- Comprehensive Exam: 2 credit hours of enrollment required

TOTAL CREDITS: 45-51 TOTAL GPA hours (including Field Experience)

Special Admission Requirements: None

Public Health Education (MPH)

Description: Health educators, using health promotion principles, assist individuals and communities in the adoption and maintenance of healthy lifestyles. This MPH program prepares health educators to collect and analyze data to identify diverse community needs prior to planning, implementing, monitoring and evaluating health promotion programs; communicate health and health promotion needs; and plan, implement and evaluate health promotion programs using ethical standards and theoretical frameworks and models. The curriculum helps students acquire relevant theoretical and practical knowledge in diverse fields of endeavor, such as the social and behavioral sciences, communication dynamics, educational theory and design, and community organization. Students who complete a degree in public health education are eligible to sit for the national Certified Health Education Specialist (CHES) examination.

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In addition to the overall Master of Public Health degree objectives, located at <http://publichealth.usf.edu/mph.html>, *Health Education* graduates will be able to:

1. Assess individual and community needs for health education.
 - a. Obtain health related data about social and cultural environments, growth and development factors, needs and interests.
 - b. Distinguish between behaviors that foster and those that hinder well-being.
 - c. Infer needs for health education on the basis of obtained data.
2. Plan effective health education programs.
 - a. Recruit community organizations, resource people, and potential participants for support and assistance in program planning.
 - b. Develop a logical scope and sequence plan for a health education program.
 - c. Formulate appropriate and measurable objectives.
 - d. Design educational programs consistent with specified program objectives.
3. Implement health education programs.
 - a. Exhibit competence in carrying out planned educational programs.
 - b. Infer enabling objectives as needed to implement instructional programs in specified settings.
 - c. Select methods and media best suited to implement program plans for specific learners.
4. Evaluate effectiveness of health education programs.
 - a. Develop plans to assess achievement of program objectives.
 - b. Interpret results of program evaluation.
 - c. Infer implications from findings for future program planning.
5. Act as a resource person.
 - a. Utilize computerized health information retrieval systems effectively.
 - b. Select effective educational resource materials for dissemination.
6. Communicate health and health educational needs, concerns, and resources.
 - a. Interpret concepts, purposes, and theories of health education.
 - b. Predict the impact of societal value systems of health education programs.
 - c. Select a variety of communication methods and techniques in providing health information.
7. Apply appropriate research principles and methods in health education.
 - a. Conduct a thorough review of literature.
 - b. Use appropriate qualitative and quantitative research methods.
 - c. Apply research to health education practice.
8. Advance the profession of public health education and health promotion.
 - a. Provide a critical analysis of current and future needs.
 - b. Apply ethical principles as they relate to the practice of health education

The above are based on the national competencies and responsibilities identified by the health education profession.

Prerequisites

- Prerequisite undergraduate courses
 - HSC 4554 Survey of Human Disease
 - HSA 4011 Introduction to Public Health
- Suggested/preferred undergraduate majors: Undergraduate majors may be admitted from a wide range of backgrounds, although majors from nursing, the natural sciences, psychology, sociology, anthropology, and education are desirable.
- Work experience: Work experience in the field of public health and health education is appropriate, but not necessary.
- Minimum undergrad GPA – 3.0 **OR**
- Verbal GRE Score: minimum 500
- Quantitative GRE Score: minimum 550

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- Two letters of recommendation from academic and/or related professional sources.
- Career goal statement.

Curriculum or Plan of Study

Please see description of courses in this catalog under the main section: Course Listing

College Core Courses (15 credits)

PHC 6000	Epidemiology (3)
PHC 6050	Biostatistics I (3)
PHC 6102	Principles of Health Policy and Management (3)
PHC 6357	Environmental and Occupational Health (3)
PHC 6410	Social and Behavioral Sciences Applied to Health (3)

Required Concentration Courses (17)

PHC 5X00	Professional Foundations of Health Education (1)
PHC 6500	Theoretical and Behavioral Basis for Health Education (4)
PHC 6715	Research Foundations in Public Health (3)
PHC 6708	Evaluative Methods in Community Health (3)
PHC 6505	Program Planning Methods in Community Health (3)
PHC 6508	Case Studies in Public Health Education (3)

Suggested Support / Elective Courses (6)

PHC 6506	Community Health Education (3)
PHC 6533	Health Program Development and Change Process (3)
PHC 6411	Introduction to Social Marketing for Public Health (3)
HSC 6641	Prevention and Control of Unintentional Injuries (3)
PHC 6414	Adolescent Health (3)
PHC 6705	Formative Research Methods in Social Marketing (3)
PHC 6934	Health Message Design in Public Health (3)
PHC 6706	Focus Group Research Strategies (3)
PHC 6193	Qualitative Methods in Community Health Research (3)

Culminating Experiences

- PHC 6945 Supervised Field Experience
 - Students with little or no professional experience: minimum 6 hours
 - Students with relevant professional experience: minimum 6 hours; in this case we try to find field experience in which the student lacks experience
 - PHC 6977 Special Project (3)
 - Comprehensive Exam: 2 credits hours of enrollment is required
- TOTAL CREDITS: **47-53 total GPA hours** (including Field Experience)

Special Admission Requirements: None

Dual Degree(s)

Please see dual degree descriptions in this catalog under the main section: Dual Degrees

MPH / MA Public Health Education MPH / Anthropology MA

[Health Education Accelerated Entry](#)

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Eligible undergraduate students may be admitted to the College of Public Health to pursue studies in the Public Health Education concentration. Applicants must have attained a grade point average of at least 3.0 on a four-point scale, or received a minimum score of Verbal 500 and Quantitative 550 on the Graduate Record Exam (GRE). This special MPH program permits students to earn an MPH without first completing the baccalaureate. Applicants must have completed 90 undergraduate semester hours in a program related to the field of Public Health, such as social sciences, natural sciences, behavioral sciences, pre-medicine, pre-dental, nursing, or education. Interested students are encouraged to consult the Department of Community and Family Health faculty advisor upon completing 60 undergraduate semester hours.

Interested students are encouraged to inquire:

Dr. Robert McDermott 813-974-6700 email: rmcdermo@health.usf.edu

Pre-Admission Advising 813-974-6505 email: advisor@health.usf.edu

Dual Degrees

Dual degrees combine a Public Health degree with a degree from another area of study. Following are the dual degree options available for the Department of Community and Family Health and the offerings vary by concentration. *Please see dual degree descriptions in this catalog under the main section: Dual Degrees.*

- Anthropology (MA or PhD)
- Medicine (MD)
- Physical Therapy (DPT)
- Social Work (MSW)

Graduate Certificates

Graduate Certificate Programs allow a student to take a concentration in a specific topical area without being admitted to a degree program. Certificates range from 12 to 18 credits to complete, depending on the one selected. By comparison, the MPH requires a minimum of 42 credits. This department offers three Graduate Certificates. *Graduate Certificates are described in this catalog under the main section: Graduate Certificates.*

- Social Marketing in Public Health
- Violence & Injury: Prevention and Intervention
- Interdisciplinary Women's Health

Opportunity for Medical Residents

Maternal Child Health/Medical Residency/Fellowship

A special program for physicians is designed so that the MPH in Maternal and Child Health can be completed during the period of a 3 year residency or fellowship. This 33 hour credit program has special admission requirements and is open to Residents and Fellows in training in the USF College of Medicine. The purpose of this program is to broaden experience and acquire skills working with comprehensive aspects of maternal child health care, public health and population based studies in public health settings. Students will be board eligible in their specialty as well as acquiring the MPH degree in Maternal Child Health. Most of the general pediatric residents will work in primary care settings usually within urban communities. Fellows in Neonatology and Child Development use their experience in the MPH to apply the issues of long term outcome and impact of services on children and their families. For more information contact Dr. Stanley N. Graven, MD at sgraven@health.usf.edu.

Global Health

Description

The department of Global Health focuses on providing educational opportunities for those interested in global health challenges and emerging infectious diseases worldwide that have serious transnational impact. The program will prepare students for careers in governmental agencies such as the CDC, EPA, USAID; non-governmental organizations such as the Helen Keller International and Save the Children Fund; state health departments; immigrant and migrant health services; philanthropic foundations; research institutions and professional schools in the biomedical field. Foreign graduates would qualify for positions when they return to their home countries in the ministries of health, governmental and non-governmental health agencies, and academia.

Peace Corps: The Master's International Program offers the unique opportunity to combine Peace Corps service with a master's degree program. Please read the [Peace Corps website](http://health.usf.edu/publichealth/peacecorpsmi.html) fully at <http://health.usf.edu/publichealth/peacecorpsmi.html>.

Programs Offered Table

Department of Global Health		
Concentrations	Degrees	Notes
Global Communicable disease	MPH MSPH PhD	
Global Health Practice	MPH	Master's International Peace Corps Program
Epidemiology & Global Health	MPH	Combined Concentration
Available Certificates		Available Dual Degrees
<ul style="list-style-type: none"> • Disaster Management (web based) • Humanitarian Assistance (web based) • Infection Control 		<ul style="list-style-type: none"> • Anthropology (MA or PhD) • Biochemistry/Molecular Biology (PhD) • Physical Therapy (DPT)

Concentrations

Global Communicable Disease MPH

Description: This program provides an opportunity for science-oriented students with an interest in communicable diseases to receive specialized training in the recognition, identification, diagnosis, surveillance, control, and prevention of public health problems related to communicable diseases throughout the world, with particular emphasis on the problems of Florida and underdeveloped nations. Several course offerings and areas of emphasis focusing on infection control have been added to this program to allow public health practitioners to expand their knowledge of infection control practices and procedures, particularly in hospital settings. Preference for admission is given to students with a background or demonstrated skills in the biological sciences. Prerequisites may be required.

In addition to the overall Master of Public Health degree objectives, located at <http://publichealth.usf.edu/mph.html>, *Global Communicable Disease* graduates will be able to:

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- Recognize and describe the natural history of disease-causing parasites, bacteria, viruses, fungi, and other organisms of major public health concern, as well as the disease processes and clinical manifestations caused by those infectious organisms;
- Identify and describe the appropriate diagnosis, surveillance, control, treatment and prevention of communicable diseases;
- Identify and describe the natural human defenses, the appropriate use of diagnostic techniques and serological surveillance, and the role of preventive interventions and treatments such as vaccines and antibiotics against communicable diseases;
- Identify the cultural, social, and economic factors that contribute to the incidence and prevalence, as well as the transmission, control, treatment, and prevention of communicable disease;
- Analyze data collected through epidemiologic studies and interpret the findings;
- Design programs for the surveillance and control of communicable diseases and identify the public health conditions and problems related to the surveillance and control of communicable diseases in developing countries;
- Apply culturally appropriate technology and interventions and identify the ethical considerations regarding diagnosis, surveillance, control, treatment, and prevention of communicable diseases; and
- Present information about communicable diseases to other members of health-related professions and to members of the public in a professional and effective manner.

Prerequisites

- Public health course prerequisite:
 - HSC 4554 Survey of Human Diseases (3) OR
 - Equivalent education or work experience.
- Suggested/preferred undergraduate majors: Biology, Zoology, Microbiology, Immunology
- Prerequisite undergraduate courses: None. Suggested undergraduate courses include general chemistry with laboratory, biology or zoology with laboratory, microbiology with laboratory, biochemistry with laboratory, immunology
- Work experience: None
- Minimum undergrad GPA: 3.0 **OR**
- Minimum GRE Score: Verbal 450 + 550 Quantitative
- Other criteria: International applicants - International applicants from non English-speaking countries must provide a minimum TOEFL score of 213 (computer-based test) or 550 (written test), taken within 2 years of the desired term of entry.
- Substitutions: Applicants may substitute an MCAT mean score of 8 for the required GRE Scores

Curriculum or Plan of Study

Please see description of courses in this catalog under the main section: Course Listing

College Core Courses (15 credits)

PHC 6000 Epidemiology (3)
PHC 6050 Biostatistics I (3)
PHC 6102 Principles of Health Policy and Management (3)
PHC 6357 Environmental and Occupational Health (3)
PHC 6410 Social and Behavioral Sciences Applied to Health (3)

Required Concentration Courses (18)

PHC 6251 Disease Surveillance and Monitoring (3)
PHC 6510 Exotic and Emerging Infectious Diseases (3)
PHC 6511 Public Health Immunology (3)
PHC 6512 Vectors of Human Diseases (3)
PHC 6513 Public Health Parasitology (3)
PHC 6560 The Public Health Laboratory System (3)

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Electives (6) Examples of common elective options
PHC 6562 Microbiology for Health Care Workers (3)
PHC 6314 Infection Control Program Design (3)
PHC 6517 Infectious Disease Prevention Strategies (3)
PHC 6514 Infectious Disease Control in Developing Countries (3)
PHC 6934 Public Health Laboratory Practicum (3)

Culminating Experiences

- PHC 6945 Supervised Field Experience (3 credit hours minimum)
- PHC 6977 Special Project (3)
- Comprehensive Exam (no credit)

TOTAL CREDITS: 45 credit hours minimum

College Admission Requirements

<http://publichealth.usf.edu/degree reqs.html>

Dual Degree(s)

Please see dual degree descriptions in this catalog under the main section: Dual Degrees

MPH/PhD Global Communicable Disease MPH / Anthropology PhD

MPH/PhD Global Communicable Disease MPH / Biochemistry/Molecular Biology PhD

Global Communicable Disease MSPH

This program provides an intense research and technical program of study for science-oriented students with an interest in communicable diseases. Individualized courses of study are determined for students with the cooperation of an advisory committee, which allows students to receive specialized training in the recognition, identification, diagnosis, surveillance, control, and prevention of public health problems related to communicable diseases. This degree program focuses on preparing students to fulfill leadership and research roles in solving or containing public health problems in communicable disease throughout the world with particular emphasis on the problems of Florida and underdeveloped nations. Several course offerings and areas of emphasis focusing on infection control have been added to allow public health practitioners to expand their knowledge of infection control practices and procedures, particularly in hospital settings. Preference for admission is given to students with a background or demonstrated skills in the biological sciences. Prerequisites may be required.

In addition to the overall Master of Science in Public Health degree objectives, located at <http://publichealth.usf.edu/msph.html>, *Global Communicable Disease* graduates will be able to:

- Recognize and describe the natural history of disease-causing parasites, bacteria, viruses, fungi, and other organisms of major public health concern and the disease processes and clinical manifestations caused by those infectious organisms;
- Identify and describe the appropriate diagnosis, surveillance, control, treatment and prevention of communicable diseases;
- Identify and describe the natural human defenses, the appropriate use of diagnostic techniques and serological surveillance, and the role of preventive interventions and treatments such as vaccines and antibiotics against communicable diseases;
- Identify the cultural, social, and economic factors that contribute to the incidence and prevalence, as well as the transmission, control, treatment, and prevention of communicable disease;
- Analyze data collected through epidemiologic studies and interpret the findings;

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- Design programs for the surveillance and control of communicable diseases and identify the public health conditions and problems related to the surveillance and control of communicable diseases in developing countries;
- Choose and apply culturally appropriate technology and interventions and identify the ethical considerations regarding diagnosis, surveillance, control, treatment, and prevention of communicable diseases; and
- Present information about communicable diseases to other members of health-related professions and to members of the public, in both a written and oral format, in a professional and effective manner.

Prerequisites

- Public health course prerequisite:
 - HSC 4554 Survey of Human Diseases (3) OR
 - Equivalent education or work experience.
- Suggested/preferred undergraduate majors: Biology, Zoology, Microbiology, Immunology
- Prerequisite undergraduate courses: None; Suggested undergraduate courses include general chemistry with laboratory, biology or zoology with laboratory, microbiology with laboratory, biochemistry with laboratory, immunology
- Work experience: None
- Minimum undergrad GPA: 3.00
- Verbal GRE Score: minimum 450
- Quantitative GRE Score: minimum 550
- Other criteria: International applicants: International applicants from non English-speaking countries must provide a minimum TOEFL score of 213 (computer-based test) or 550 (written test), taken within 2 years of the desired term of entry.
- Substitutions: Applicants may substitute an MCAT mean score of 8 for the required GRE Scores

Curriculum or Plan of Study

Please see description of courses in this catalog under the main section: Course Listing

College Core Courses (9 credits)

PHC 6000 Epidemiology (3)

PHC 6050 Biostatistics I (3)

And one of the following:

PHC 6102 Principles of Health Policy and Management (3)

PHC 6357 Environmental and Occupational Health (3)

PHC 6410 Social and Behavioral Sciences Applied to Health (3)

Research Methods Courses (9)

PHC 6051 Biostatistics II (3)

Two additional research courses related to student's focus area (6)

Suggested Concentration Courses (18)

PHC 6251 Disease Surveillance and Monitoring (3)

PHC 6510 Exotic and Emerging Infectious Diseases (3)

PHC 6511 Public Health Immunology (3)

PHC 6512 Vectors of Human Diseases (3)

PHC 6513 Public Health Parasitology (3)

PHC 6930 Public Health Seminar (1)

PHC 6562 Microbiology for Health Care Workers (3)

PHC 6314 Infection Control Program Design (3)

PHC 6517 Infectious Disease Prevention Strategies (3)

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PHC 6514	Infectious Disease Control in Developing Countries (3)
PHC 6934	HIV in Public Health (3)
PHC 6002	Infectious Disease Epidemiology (3)
PHC 6934	Intermediate Infectious Disease Epidemiology (3)
PHC 6934	Food Safety (3)

Culminating Experiences

- PHC 6971 Thesis (6)
- Comprehensive Exam (no credit)

TOTAL CREDITS: 42

College Admission Requirements

<http://publichealth.usf.edu/degreereqs.html>

Special Admission Requirements: Preference for admission is given to students with a background or demonstrated skills in the biological sciences. Prerequisites may be required.

Dual Degree(s): None

Global Communicable Disease (PhD)

The Department of Global Health's Doctor of Philosophy (PhD) program is offered through the Global Communicable Diseases tract. Graduates of the doctoral program will be qualified to conduct fundamental and applied research in identification, evaluation and prevention of tropical and communicable diseases. The Department offers a distinguished teaching and research program which provides a sound basis for doctoral study. Please review [individual faculty web pages](#) for an overview of faculty research interests.

Student Background:

Students seeking entrance into the Doctoral Program in the Department of Global Health must have a clear career focus. They should have the educational training of sufficient breadth, a record of excellent achievement, and an indication of potential (typically GPA of 3.0 and GRE 1100). Ideally the student should present a background of sufficient depth that he or she can function as a mature and self-directed professional in the area of public health. In addition to [USF Graduate Studies](#) and [College Doctoral Admission Requirements](#), Departmental Requirements are described below:

Education: Student should have a master's degree or higher, in public health or a related discipline, such as: health sciences, biological sciences, physical sciences or engineering. Prior research experience is desirable. Students with a bachelor's degree with excellent academic background and research experience may be considered. Students who do not have a prior degree in Public Health must take Epidemiology, Biostatistics and one other core as prerequisites to their doctoral coursework.

Faculty Sponsorship and Financial Resources: The match between student and faculty is considered to be as important as the background of the student alone. There must be a faculty member willing to take the responsibility to provide guidance and supervision for the student before a student can be fully admitted. In addition, there must be financial resources available to support the student's doctoral research. Because of this, not all students who meet the basic criteria for admission will necessarily be admitted.

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Student Competencies

A graduate from the Global Communicable Disease program will be able to:

- Define and formulate a research hypothesis that will provide information aimed at improving the health of individuals and communities, and the quality and safety of the environments in which we work and live;
- Develop and apply laboratory and field methodologies to test a research hypothesis, including quality assurance/quality control techniques and statistical methods that test the validity and significance of research data;
- Demonstrate the oral and writing skills, and experimental design, worthy of defending a dissertation and publication in academic and professional journals;
- Work as a productive member of a research team and collaborate in writing research proposals to obtain extramural funding to support research projects;
- Demonstrate ethical considerations in the practice, management and publication of research results;
- Teach in university settings; and
- Provide a leadership role in environmental/occupational health at the local, state, national and international levels.

Application and Admissions Process

Students applying for the PhD in Public Health must submit their completed applications to the [Graduate Admission Office](#). In addition to the application form, the College of Public Health admissions office requires a [Supplementary Admissions Form](#) which is submitted directly to the College at the address provided on the form. Applicants to the doctoral program must meet the following minimum criteria in order to be considered for admission. However, the meeting of these criteria, per se, shall not be the only basis for admission.

Applicants must meet the following minimum criteria for consideration:

1. Verbal GRE Score: minimum 480 AND
2. Quantitative GRE Score: minimum 620 AND
3. Graduate grade point average of at least B (e.g. 3.0 on 4.0 scale) or better. Exceptional students with a bachelor's degree may be considered.
4. In order to be considered for admission to the PhD programs in the Department of Global Health, applicants must be prepared to register as a full-time student for at least one academic year. Students are expected to participate in the intellectual life of the department through interaction via seminars, interdisciplinary conferences and other activities. This expectation is of all doctoral students regardless of their status as full or part-time students.
5. Each applicant should submit evidence of written/analytical skills to the College of Public Health. This shall be in two forms:
 - a. A project or term paper, a thesis, or a publication on which the student was first author; **and**
 - b. A detailed statement that describes why the applicant wishes to obtain the PhD degree in public health. This statement must be less than 1000 words in length.

The completed application package will include:

1. Completed application to USF Graduate Studies

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2. Completed [COPH Supplementary Information Form for Application to the PhD Program](#)
3. A complete set of official transcripts
4. Two outside letters of recommendation submitted by individuals qualified to judge the applicant
5. One letter of recommendation from a departmental faculty member.

Review by the Department Admissions Committee:

1. Determination of student eligibility
2. Determination of availability of resources (faculty advisors, research support)
3. Applicants who are passed through these first two steps will be interviewed. This provides the students an opportunity to learn about prospective advisor(s) and to meet with the Department Admission Committee.
4. Letter of Support and agreement to serve as advisor written by an eligible departmental faculty member and placed in the applicants file (serves as third letter of recommendation and obligates faculty member to provide or ensure financial support of students doctoral research).
5. Student is notified of acceptance or rejection and availability of advisors for the student. If more than one faculty member has volunteered to be the advisor, the student may schedule an additional meeting if needed to arrive at a final decision.

The final decision is based on:

1. Qualification experience and References
2. Direction and areas of interest
3. Available faculty
4. Available resources

Upon acceptance to the Doctoral Program: Each student shall sign a letter of understanding regarding the five stages in the doctoral degree process:

1. Successful completion of a written plan of study which was approved by their doctoral committee (generally by the end of student's second full semester of study);
2. Successful performance on the comprehensive written and oral examination leading to doctoral candidacy;
3. Preparation and formal defense of a dissertation proposal;
4. Conduct of dissertation research activities and preparation of dissertation documents;
5. Successful defense of dissertation; and
6. Successful completion of teaching proficiency as outlined by the doctoral committee.

The Doctoral Program

Doctoral Committee; Chair, Members through qualifying Examination; then Dissertation Committee

Upon a student's admission, the department chairperson will appoint the faculty sponsor as advisor. The student and Faculty advisor shall meet prior to the beginning of the first semester to identify courses taken during the first semester of study. By the end of the first semester, the

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doctoral committee must be formed. The Doctoral Committee will advise and approve the student's course of study administer and grade the written and oral qualifying examinations.

The Doctoral Committee will consist of at least four members including the adviser, three of whom must come from the Department of Global Health. After passing the qualifying examination, the Dissertation Committee will be formed. The Doctoral Committee may continue to serve as Dissertation Committee. The Dissertation Committee will approve the student's plan of research, supervise the research, read and approve the dissertation, and conduct the dissertation defense. The Dissertation Committee will consist of at four least members including the advisor, three of whom must come from the academic area in which the major work for the degree will be done, with at least one member from outside the Department of Global Health. All the members must be credentialed, by USF Graduate Studies.

Plan of Study

A minimum of 90 semester hours beyond the bachelor's degree are required. During the first year of study, the student and the Doctoral committee will agree upon a planned program of courses suitable to the student's research interest and which will provide the student the required competencies in the area of specialization. This Plan of Study and any subsequent revisions must be approved by the doctoral advisory committee and must be filed with the College's [Academic Affairs Office](#) promptly. Applicants must register as full time students (a minimum of 9 credits per semester of substantive course work) for at least two consecutive semesters during their program). Courses offered by other colleges may be used when appropriate.

The student's plan of study will include the following components:

Prerequisites: A minimum of Biostatistics I, Epidemiology, and one other college core course are required by all students who do not have a master's degree in public health. The doctoral committee or the department may require other prerequisites. A student who has a master's degree may be required to take those public health courses which have not been included in previous master's study. These courses are not included in the minimum number of hours a student needs to complete the PhD and are expected to be completed early in the course of study. Doctoral student will be required to take a more advanced biostatistics course than PHC 6050.

Tools of Research:

Before a student becomes eligible to take the doctoral comprehensive qualifying examination, two of the "Tools of Research" selected and approved by the student's Doctoral Committee must be completed. Courses taken to fulfill "Tools of Research" requirements may not be credited toward the 90 SH requirement for the PhD degree. The "Tools of Research" requirement is interpreted broadly to allow the inclusion of a wide range of skills competencies relevant to the candidate's area of study. Suggested topics include foreign language, advanced courses in Computer Science, (Bio) Statistics, special practical training complimentary to the student's area of research and other appropriate courses. The Doctoral Committee will state clearly what is required, how it will be met, in what way it is appropriate for the student's course of study, as well as how proficiency/competency will be evaluated.

Seminars: Doctoral students will be expected to participate in the department's Interdisciplinary Conferences and shall present at least twice during their course of study. All doctoral students take a minimum of three semester (one credit per semester) of a college wide Advanced Interdisciplinary Seminar in Public Health (PHC 7931).

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Required Course Work: The courses and number of credit hours required are defined by the doctoral committee and may include course work from another department or college. There must be a minimum of 13 credits beyond at the 7000 level. Generally, the doctoral degree requires a minimum of 90 credits beyond the bachelor's degree. "Tools of Research" and Public Health Core Courses are not included in this 90 credit requirement. The doctoral committee shall delineate in the plan of study the number of credits accepted from previous master(s) degree which will not exceed a maximum of 30.

Advanced Biostatistics Course	3
Required courses for concentration area or equivalent	12
Required doctoral level courses (7000 level)	13
Elective Courses	
Directed Research	
Dissertation (minimum)	18
Evidence of teaching proficiency	
Tools of research (2 areas)	
Minimum Credits:	90
Additional coursework beyond 90 credits may be required of the student as specified in the plan of study	

Qualifying Examination, Candidacy, and Dissertation Requirements

Qualifying Examination: The comprehensive qualifying examination is a means of:

1. Having students demonstrate their mastery of knowledge and skills relevant to the discipline of study;
2. Diagnosing knowledge deficiencies; and/or
3. Fulfilling external requirements (i.e., mandate from College or University).

The qualifying examination is administered by the Doctoral Committee when the student has met the following minimum conditions:

1. Successful completion of all or most formal coursework, including the research tools; and,
2. Agreement between the doctoral student and the Doctoral Committee that the student is prepared for the qualifying examination process.

The content of the qualifying examination will be drawn from two broad areas:

1. The broad field of Public Health with emphasis on Global Health; and
2. Understanding and knowledge in the major field of interest.

The comprehensive qualifying examination will have an oral component in addition to the written portion of the examination. The student must successfully complete the written portion of the qualifying examination prior to undertaking the oral portion of the exam. A student who is unsuccessful in the first attempt of the written portion will be given one opportunity to retest the written portion of the examination. A second failure of the written examination or of the oral examination will result in the student's dismissal from the doctoral program.

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Admission to Candidacy: Students may not be admitted to candidacy until after a Doctoral Committee has been appointed and the Committee has certified that the student has successfully completed the qualifying examination and demonstrated the qualifications necessary to successfully complete the requirements of the degree. Following approval of Admission to Candidacy form, the Dissertation committee is formed and the student may enroll in Dissertation credits.

The Proposal, Dissertation, and Oral Defense

The Proposal: The student, in consultation with the doctoral dissertation committee, will agree upon a dissertation subject and develop a proposal, consisting of at least the following chapter:

1. Statements of the problem;
2. Review of Pertinent Literature; and
3. Methods.

The proposal shall be presented in a formal meeting including at least the Dissertation Committee. Before the proposal is presented, committee members shall sign a form indicating that they have read the proposal and approve it for presentation is not necessarily an endorsement of the proposal as a research plan.

Dissertation: Original research, dealing with a clearly identified contemporary problem in the selected discipline resulting in a direct contribution to the science, should constitute the key element of the dissertation. The formulation of a scientifically sound hypothesis, coupled with appropriate planning and execution of well designed experiments, followed by analysis of data leading to a solution of the problem is expected.

Defense of Dissertation: Scheduling of the final oral examination (defense of dissertation) should be by mutual agreement of the student and the dissertation committee, and in conformance with the scheduling requirements of [Graduate Studies](#). The dissertation defense will include a presentation of the results of the Dissertation Research which is open to interested faculty, students, and guests. The Chair of the examination committee shall be a distinguished scholar who is not a member of the dissertation committee, and is from outside the Department of Global Health in accordance with College of Public Health Policy. The Dissertation Defense (examination) Committee Chair acts as a representative of the Graduate school to ensure that the Defense is both thorough and fair.

Teaching and Assistantships

Teaching: All PhD candidates are required to teach as part of their training. The teaching experiences should include, but not be limited to:

1. Presentation of seminars;
2. Assisting with class preparation;
3. Giving classroom lectures or presentations;
4. Presentation of research findings at local and /or national meetings

Students entering the doctoral program with significant teaching experience at the University level may have all or part of this requirement waived or substituted by their committee.

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Assistantships: The Department has a limited number of assistantships for PhD students. Students should apply to the Global Health Department's Student Affairs and Admissions Committee.

Restriction on Release of Publication: See Graduate Studies for details

Responsibilities of Students: Students are expected to be familiar with the Graduate Catalog, Department and College Academic Affairs and pertinent documents and forms that guide doctoral studies. The student is responsible for assuring appropriate forms are submitted on time.

Global Health Practice MPH

Description: This program will prepare students for achieving a professional position in the field of international public health, such as with international, bilateral, governmental and non-governmental agencies. The curriculum focuses on assessment and intervention strategies useful in resolving health problems of primarily undeveloped countries. Global health practice students have an opportunity to select courses that focus on areas such as epidemiology, maternal and child health, management and socio-health sciences. Students who choose to combine this program with the Peace Corps Master's International program will be able to obtain a long-term field placement experience that will enhance their marketability for employment. The program will work with the USF Office of International Affairs to assist in placement of graduates.

In addition to the overall Master of Public Health degree objectives, located at <http://publichealth.usf.edu/mph.html>, *Global Health Practice* graduates will be able to:

- Describe the sociocultural, political and economic determinants of health and health status at the global level;
- Assess the burden of disease on health, service utilization and finance, and the importance of prevention;
- Analyze the prevailing international health systems in industrial and developing countries, comparing coverage, utilization, equity, policy, organization, delivery and financing of those systems and define the rationale for health systems' reforms;
- Appraise the role of cultural, social and economic factors that contribute to the incidence of infectious disease;
- Assess public health conditions and problems related to infectious disease control and surveillance in developing countries;
- Use ethical and culturally appropriate technology/ interventions when addressing public health problems and prevention at the global level; and
- Propose methodologies for the evaluation of public health programs and interventions.

Prerequisites

- Public health course prerequisites: none
- Suggested/preferred undergraduate majors: none
- Prerequisite undergraduate courses:
 - HSC 4554 Survey of Human Diseases or similar courses.
- Work experience: not required
- Minimum undergraduate GPA: 3.0 **OR**
- Minimum GRE score: Verbal 450 Quantitative 550
- An MCAT Mean of 8 may be substituted for the GRE.
- Other criteria: Minimum technology requirements include intermediate computer skills, two letters of recommendation, resume, and goal statement.

Curriculum or Plan of Study

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Please see description of courses in this catalog under the main section: Course Listing

College Core Courses (15 credits)

PHC 6000	Epidemiology (3)
PHC 6050	Biostatistics I (3)
PHC 6102	Principles of Health Policy and Management (3)
PHC 6357	Environmental and Occupational Health (3)
PHC 6410	Social and Behavioral Sciences Applied to Health (3)

Global Health Practice Required Courses (12 credits)

PHC 6115	Global Health Principles & Contemporary Issues (3)
PHC 6112	Global Health Assessment Strategies (4)
PHC 6106	Global Health Program Development & Administration (3)
PHC 6442	Global Health Applications in the Field (2)

Focus Area Support Courses (12 credits) (Students select a focus area)

**Other courses not included on this list may be approved by the student's advisor.*

PHC 6111	Global Primary Health Care Strategies (3)
PHC 6146	Health Services Planning and Evaluation (3)
PHC 6147	Managing Quality in Health Care (3)
PHC 6511	Public Health Immunology (3)
PHC 6512	Vectors of Human Disease (3)
PHC 6513	Public Health Parasitology (3)
PHC 6074	Epidemiology of Diseases of Major Public Health Importance (3)
PHC 6700	Research Methods in Epidemiology (3)
PHC 6934	Intermediate Infectious Disease Epidemiology (3)
PHC 6535	International Maternal and Child Health (3)
PHC 6116	International Health Education (3)
PHC 6536	Population and Community Health (3)
PHC 6532	Women's Health Issues in Public Health (3)

Culminating Experiences

PHC 6945	Supervised Field Experience (6 credits minimum, 1 credit = 45 hours)
PHC 6977	Special Project (3)

* Master's International Peace Corps students will enroll for 6 credit hours of field experience

Comprehensive Exam (no credit)

TOTAL CREDITS: 48 credit hours minimum

College Admission Requirements

<http://publichealth.usf.edu/degreereqs.html>

Dual Degree(s): None

Epidemiology and Global Health MPH (Combined Concentration)

Description: This program will prepare students with a strong background in analytical skills and methods, for achieving a professional position in the field of international public health, such as international, bilateral, governmental and non-governmental agencies. This dual program in Epidemiology

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and Global Health prepares students to critically evaluate research on determinants of health-related events, formulate strategies to evaluate the impact of health related interventions and foster the application of epidemiological and biostatistical methods for health promotion/disease prevention activities. The curriculum focuses on assessment and intervention strategies useful in resolving health problems of primarily undeveloped countries.

In addition to the overall **Master of Public Health** degree objectives, Epidemiology and Global Health concentration graduates will be able to:

- Describe the history and theory of epidemiology;
- Apply the methods of epidemiology to problems of health promotion, disease prevention and control;
- Apply and analyze the methods of biostatistics to problems of health promotion, disease prevention and control;
- Compare and contrast experimental and observational study design in epidemiology;
- Recognize risk factors and the relationships to health outcomes in diverse populations;
- Demonstrate skills in review of the literature, data management, data analysis and interpretation of results;
- Apply knowledge of core areas and specialized public health techniques, practices, policies, and programs to improve the health and well being of all populations;
- Articulate ethical issues relating to epidemiologic research in a public health setting; and provide leadership in a specific health specialty that is ethical, population focused, culturally appropriate and uses innovative approaches to pressing public health problems;
- Describe the sociocultural, political and economic determinants of health and health status at the global level;
- Assess the burden of disease on health, service utilization and finance, and the importance of prevention;
- Analyze the prevailing international health systems in industrial and developing countries, comparing coverage, utilization, equity, policy, organization, delivery and financing of those systems and define the rationale for health systems' reform;
- Appraise the role of cultural, social and economic factors that contribute to the incidence of infectious disease;
- Assess public health conditions and problems related to infectious disease control and surveillance in developing countries;
- Use ethical and culturally appropriate technology/interventions when addressing public health problems and prevention at the global level;
- Propose methodologies for the evaluation of public health programs and interventions.

Prerequisites:

- Public Health course prerequisites:
 - HSC 4554 Survey of Human Disease
 - HAS 4011 Introduction of Public Health
 - Or an equivalent course approved by advisor
- Students must be accepted by both departments and meet departmental minimum GRE and GPA requirements for the MPH
- Suggested/preferred undergraduate majors: life science, math
- Preferred undergraduate courses: algebra, calculus.
- Work experience: Prior work experience is preferred, but not required.
- Minimum undergrad GPA: 3.0 on a 4 point scale in courses relevant to the field of study. Or
- Minimum GRE score: Verbal 450 Quantitative 550

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- Other criteria: Intermediate computer skills, goal statement, 2 letters of recommendation and resume. Availability of faculty and facility resources are also considered as part of the entrance evaluation.

Note: Students will have 2 faculty advisors: 1 from Epidemiology and 1 from Global Health

All courses are 3 credit hours unless otherwise noted

I. Required College Core Courses **15 hours**

PHC 6000 – Epidemiology
PHC 6050 – Biostatistics
PHC 6102 – Principles of Health Policy and Management
PHC 6410 – Social and Behavioral Science Applied to Health
PHC 6357 – Environmental and Occupational Health

II. Required Concentration Area Courses **21 hours**

Global Health
PHC 6115 – Global Health Principles & Contemporary Issues
PHC 6112 – Global Health Assessment Strategies (4 credit hours)
PHC 6106 – Global Health Program Development and Administration
PHC 6442 – Global Health Applications in the Field (2 credit hours)

Epidemiology
PHC 6051 – Biostatistics II
PHC 6700 – Research Methods in Epidemiology
PHC 6701 – Computer Applications

III. Emphasis Area Support Courses **15 hours**

PHC 6002 – Infectious Disease Epidemiology **or** PHC 6934 Intermediate Infectious Disease Epidemiology
PHC 6934 – Observational Study Design
PHC 6053 – Categorical Data Analysis
PHC 6006 – Epidemiology of Diseases of Major Public Health Importance **or**
One Disease specific Epidemiology course such as:
PHC 6076 – Cardiovascular Disease Epidemiology,
PHC 6075 – Cancer Epidemiology, etc.

AND one of the following courses: PHC6512 – Vectors of Human Disease,
PHC 6511 – Public Health Immunology
PHC 6513 – Public Health Parasitology

IV. Additional Requirements **6-9 hours**

PHC 6977 – Special Project* 3 hours
PHC 6945 – Supervised Field Experience** 3-6 hours (depending on past international experience)

*Must be epidemiologic in content and have a global health perspective with 2 readers: 1 from Epidemiology and 1 from Global Health

**Must be international and involve epidemiologic content

Total minimum credit hours: 54 plus Field Experience

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College Admission Requirements

<http://publichealth.usf.edu/degree reqs.html>

Please see dual degree descriptions in this catalog under the main section: Dual Degrees

MPH / MA Public Health Education MPH / Anthropology MA
MPH / PhD Public Health Education MPH / Anthropology PhD

Master's International Peace Corps Program

Description:

The Master's International Peace Corps Program is an affiliation between the Peace Corps and the University of South Florida to allow students to combine the seeking of a master's degree with Peace Corps Service. The Global Health Practice MPH is in the Department of Global Health. The degree associated with this is the **Masters of Public Health in Global Health Practice**, above.

How this process works:

- The prospective student applies for acceptance to the MPH in Global Health Practice. (Please refer to the Degrees Offered, Admission, Application section of this catalog.)
- The prospective student also applies to the Peace Corps.
- On each application, note the concurrent application to the other.
- If accepted to both, the Peace Corps defers service until the student has completed all course work and has taken the comprehensive exam.
- Peace Corps service, a commitment of about 27 months (about three months training "in country" followed by 24 months of service) begins and during service the student completes the requirements for a 6 credit Field Experience and the 3-credit Special Project, meeting all the requirements of each as any other student would.
- Complete the Peace Corps service and return to USF College of Public Health, turn in the Field Experience and Special Project, and graduate.
- As an incentive, the College will waive the tuition for the total of 9 credits of Field Experience and Special Project.

Helpful Hints and Notes:

- Go to the MI Peace Corps website at <http://www.peacecorps.gov/index.cfm?shell=learn.whyvol.eduben.mastersint> and read the entire site which is very comprehensive.
- Find information on making application to the Peace Corps at the Peace Corps application website which is at <http://www.peacecorps.gov/index.cfm?shell=request>
- Students may elect to concurrently earn a Graduate Certificate which is described under Graduate Certificates chapter in this catalog.
- Students also have the option of concurrently earning a dual degree, the MA in Anthropology. Dual degrees are described in this catalog in the Dual Degree chapter.

For more information, please contact:

Dr. Wayne Westhoff
Advisor
1-813-974-6621
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Coordinator
1-888-USF-COPH
1-813 974-1092

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bkennedy@health.usf.edu

Coordinator International Field Experience
1-813-974-4247

USF Peace Corps Recruiter
COPH Global Health Degree Student
Returned Peace Corps Volunteer
peacecorps@iac.usf.edu
1-813-974-4579

Dual Degrees

Dual degrees combine a Public Health degree with a degree from another area of study. Following are the dual degree options available for the Department of Global Health and the offerings vary by concentration. *Please see dual degree descriptions in this catalog under the main section: Dual Degrees.*

Anthropology
Biochemistry / Molecular Biology
Physical Therapy (DPT)

Graduate Certificates

Graduate Certificate Programs allow a student to take a concentration in a specific topical area without being admitted to a degree program. Certificates range from 12 to 18 credits to complete, depending on the one selected. By comparison, the MPH requires a minimum of 39 credits. This department offers two Graduate Certificates. *Graduate Certificates are described in this catalog under the main section: Graduate Certificates.*

Disaster Management
Humanitarian Assistance
Infection Control

Environmental & Occupational Health

Description

The Department of Environmental and Occupational Health prepares graduates to successfully develop, administer, and evaluate environmental and occupational health programs. Students learn to (1) recognize environmental and occupational hazards, (2) assess the health impacts of those hazards, (3) understand and develop measures for controlling risks to public health, (4) interpret existing and new regulations which affect the field at local, state, national and global levels, (5) explain enforcement procedures and processes in law, and (6) develop and interpret policies.

Programs Offered Table

Department of Environmental and Occupational Health		
Concentrations	Degrees	Notes
Environmental Health	MPH MSPH PhD	
Industrial Hygiene	MSPH PhD	
Occupational Health	MPH MSPH PhD	The MPH only available to dual MS Nursing students or qualified health professionals. MSPH only for MDs in the Occupational Medicine Residency Program
Safety Management	MPH	
Toxicology & Risk Assessment	MPH MSPH PhD	
Available Certificates		Available Dual Degrees
<ul style="list-style-type: none"> <u>Safety Management</u> 		<ul style="list-style-type: none"> <u>Adult Nursing (MS)</u> <u>Anthropology (MA or PhD)</u> <u>Biochemistry/Molecular Biology (PhD)</u> <u>Medicine (MD)</u> <u>Physical Therapy (DPT)</u>

Concentrations

Environmental and Occupational Health Doctor of Philosophy (PhD)

Description: The Department of Environmental and Occupational Health's PhD program is designed to develop specialists in specific areas of environmental and occupational health (environmental health, toxicology, industrial hygiene, and occupational health). Graduates of the doctoral program will be qualified to conduct fundamental and applied research in identification, evaluation and prevention of environmental and occupational health problems. The Department offers a distinguished teaching and

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research program which provides a sound basis for doctoral study. Please review individual faculty web pages at <http://publichealth.usf.edu/eoh/faculty.html> for an overview of faculty research interests.

Student Background: Students seeking entrance into the Doctoral Program in the Department of Environmental and Occupational Health must have a clear career focus. They should have the educational training of sufficient breadth, a record of excellent achievement, and an indication of potential (typically GPA of 3.0 and GRE 1100). Ideally the student should present a background of sufficient depth that he or she can function as a mature and self-directed professional in the area of public health. In addition to USF Graduate Studies (please visit <http://admissions.grad.usf.edu/>) and College Doctoral Admission Requirements, located in this catalog in the chapter Degrees Offered, Admission, Application, Departmental Requirements are described below:

Education: Student should have a master's degree or higher, in public health or a related discipline, such as: health sciences, biological sciences, physical sciences or engineering. Prior research experience is desirable. Students with a bachelor's degree with excellent academic backgrounds and research experience may be considered. Students who do not have a prior degree in Public Health must take Epidemiology, Biostatistics and one other core courses as prerequisites to their doctoral coursework.

Faculty Sponsorship and Financial Resources: The match between student and faculty is considered to be as important as the background of the student. There must be a faculty member willing to take the responsibility to provide guidance and supervision for the student before a student can be fully admitted. In addition, there must be financial resources available to support the student's doctoral research. Because of this, not all students who meet the basic criteria for admission will necessarily be admitted.

Student Competencies

A graduate from the Environmental and Occupational Health Doctoral program will be able to:

- Define and formulate a research hypothesis that will provide information aimed at improving the health of individuals and communities, and the quality and safety of the environments in which we work and live;
- Develop and apply laboratory and field methodologies to test a research hypothesis, including quality assurance/quality control techniques and statistical methods that test the validity and significance of research data;
- Demonstrate the oral and writing skills, and experimental design, worthy of defending a dissertation and publication in academic and professional journals;
- Work as a productive member of a research team and collaborate in writing research proposals to obtain extramural funding to support research projects;
- Demonstrate ethical considerations in the practice, management and publication of research results;
- Teach in university settings; and
- Provide a leadership role in environmental/occupational health at the local, state, national and international levels.

Application and Admissions Process: Students applying for the PhD in Public Health must submit their completed applications to the Graduate Admission Office; please go to <http://admissions.grad.usf.edu/> for this information. In addition to the application form, the College of Public Health admissions office requires a Supplementary Admissions Form located at <http://publichealth.usf.edu/forms.html>, which is submitted directly to the College at the address provided on the form. Applicants to the doctoral program must meet the following minimum criteria in order to be considered for admission. However, the meeting of these criteria, per se, shall not be the only basis for admission.

1. Verbal GRE score: minimum 480

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2. Quantitative GRE score: minimum 620
3. Graduate grade point average of at least B (e.g. 3.0 on 4.0 scale) or better. Exceptional students with a bachelor's degree may be considered.
4. In order to be considered for admission to the PhD programs in the Department of Environmental and Occupational Health, applicants must be prepared to register as a full-time student for at least one academic year. Students are expected to participate in the intellectual life of the department through interaction via seminars, interdisciplinary conferences and other activities. This expectation is of all doctoral students regardless of their status as full or part-time students.
5. Each applicant should submit evidence of written/analytical skills to the College of Public Health. This shall be in two forms:
 - a. A project or term paper, a thesis, or a publication on which the student was first author; **and**
 - b. A detailed statement that describes why the applicant wishes to obtain the PhD degree in public health. This statement must be less than 1000 words in length.

The completed application package will include:

1. Completed application to USF Graduate Studies
2. Completed COPH Supplementary Information Form for Application to the PhD Program located at <http://publichealth.usf.edu/pdf/supinfophd.pdf>
3. A complete set of official transcripts
4. Two outside letters of recommendation submitted by individuals qualified to judge the applicant
5. One letter of recommendation from a departmental faculty member.

Review by the Department Admissions Committee:

1. Determination of student eligibility
2. Determination of availability of resources (faculty advisors, research support)
3. Applicants who are passed through these first two steps will be interviewed. This provides the students an opportunity to learn about prospective advisor(s) and to meet with the Department Admission Committee.
4. Letter of Support and agreement to serve as advisor written by an eligible departmental faculty member and placed in the applicant's file (serves as third letter of recommendation and obligates faculty member to provide or ensure financial support of student's doctoral research).
5. Student is notified of acceptance or rejection and availability of advisors for the student. If more than one faculty member has volunteered to be the advisor, the student may schedule an additional meeting if needed to arrive at a final decision.

The final decision is based on:

1. Qualification experience and references
2. Direction and areas of interest
3. Available faculty
4. Available resources

Upon acceptance to the Doctoral Program: Each student shall sign a letter of understanding regarding the five stages in the doctoral degree process:

1. Successful completion of a written plan of study which was approved by their doctoral committee (generally by the end of student's second full semester of study);
2. Successful performance on the comprehensive written and oral examination leading to doctoral candidacy;
3. Preparation and formal defense of a dissertation proposal;
4. Conduct of dissertation research activities and preparation of dissertation documents;
5. Successful defense of dissertation; and
6. Successful completion of teaching proficiency as outlined by the doctoral committee.

The Doctoral Program

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Doctoral Committee; Chair, Members through qualifying Examination; then Dissertation Committee

Upon a student's admission, the department chairperson will appoint the faculty sponsor as advisor. The student and faculty advisor shall meet prior to the beginning of the first semester to identify courses taken during the first semester of study. By the end of the first semester, the doctoral committee must be formed. The doctoral committee will advise and approve the student's course of study and will also administer and grade the written and oral qualifying examinations.

The Doctoral Committee will consist of at least four members including the advisor, three of whom must come from the Department of Environmental and Occupational Health. After passing the qualifying examination, the Dissertation Committee will be formed. The Doctoral Committee may continue to serve as Dissertation Committee. The Dissertation Committee will approve the student's plan of research, supervise the research, read and approve the dissertation, and conduct the dissertation defense. The Dissertation Committee will consist of at four least members including the advisor, three of whom must come from the academic area in which the major work for the degree will be done, with at least one member from outside the Department of Environmental and Occupational Health. All the members must be credentialed, by the College of Public Health.

Plan of Study: A minimum of 90 semester hours beyond the bachelor's degree are required. During the first year of study, the student and the doctoral committee will agree upon a planned program of courses suitable to the student's research interest and which will provide the student the required competencies in the area of specialization. This Plan of Study and any subsequent revisions must be approved by the doctoral advisory committee and must be filed with the College's Academic Affairs Office promptly. Please see the Academic Affairs Office website at <http://publichealth.usf.edu/academicaffairs/>. Applicants must register as full time students (a minimum of 9 credits per semester of substantive course work) for at least two consecutive semesters during their program). Courses offered by other colleges may be used when appropriate.

The student's plan of study will include the following components:

Prerequisites: A minimum of Biostatistics I, Epidemiology, and one other college core course are required by all students who do not have a master degree in public health. The doctoral committee or the department may require other prerequisites. A student who has a master's degree may be required to take those public health courses which have not been included in previous master's study. These courses are not included in the minimum number of hours a student needs to complete the PhD and are expected to be completed early in the course of study. The doctoral student will be required to take a more advanced biostatistics course than PHC 6050.

Tools of Research:

Before a student becomes eligible to take the doctoral comprehensive qualifying examination, two of the "Tools of Research" selected and approved by the student's doctoral committee must be completed. Courses taken to fulfill "Tools of Research" requirements may not be credited toward the 90 SH requirement for the PhD degree. The "Tools of Research" requirement is interpreted broadly to allow the inclusion of a wide range of skills competencies relevant to the candidate's area of study. Suggested topics include foreign language, advanced courses in Computer Science, (Bio) Statistics, special practical training complimentary to the student's area of research and other appropriate courses. The doctoral committee will state clearly what is required, how it will be met, in what way it is appropriate for the student's course of study, as well as how proficiency/competency will be evaluated.

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Seminars: Doctoral students will be expected to participate in the department's Interdisciplinary Conferences and shall present at least twice during their course of study. All doctoral students take a minimum of three semesters (one credit per semester) of a college wide Advanced Interdisciplinary Seminar in Public Health (PHC 7931).

Required Course Work: The courses and number of credit hours required are defined by the doctoral committee and may include course work from another department or college. There must be a minimum of 13 credits at the 7000 level. Generally, the doctoral degree requires a minimum of 90 credits beyond the bachelor's degree. "Tools of Research" and Public Health Core Courses are not included in this 90 credit requirement. The doctoral committee shall delineate in the plan of study the number of credits accepted from previous master(s) degree which will not exceed a maximum of 30.

Advanced Biostatistics Course	3
Required courses for concentration area or equivalent	12
Required doctoral level courses (7000 level)	13
Elective Courses	Variable
Directed Research	Variable
Dissertation (minimum)	18
Evidence of teaching proficiency	
Tools of research (2 areas)	
Minimum Credits:	90
Additional coursework beyond 90 credits may be required of the student as specified in the plan of study	

Qualifying Examination, Candidacy, and Dissertation Requirements

Qualifying Examination: The comprehensive qualifying examination is a means of:

1. Having students demonstrate their mastery of knowledge and skills relevant to the discipline of study;
2. Diagnosing knowledge deficiencies; and/or
3. Fulfilling external requirements (i.e., mandate from College or University).

The qualifying examination is administered by the doctoral committee when the student has met the following minimum conditions:

1. Successful completion of all or most formal coursework, including the research tools; and,
2. Agreement between the doctoral student and the doctoral committee that the student is prepared for the qualifying examination process.

The content of the qualifying examination will be drawn from two broad areas:

1. The broad field of Public Health with emphasis on Environmental and Occupational Health; and
2. Understanding and knowledge in the major field of interest.

The comprehensive qualifying examination will have an oral component in addition to the written portion of the examination. The student must successfully complete the written portion of the qualifying examination prior to undertaking the oral portion of the exam. A student who is unsuccessful in the first attempt of the written portion will be given one opportunity to retest the written portion. A second failure of the written examination or of the oral examination will result in the student's dismissal from the doctoral program.

Admission to Candidacy: Students may not be admitted to candidacy until after a doctoral committee has been appointed and the Committee has certified that the student has successfully

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completed the qualifying examination and demonstrated the qualifications necessary to successfully complete the requirements of the degree. Following formal approval of Admission to Candidacy, the Dissertation committee is formed and the student may enroll in Dissertation credits.

The Proposal, Dissertation, and Oral Defense

The Proposal: The student, in consultation with the doctoral dissertation committee, will agree upon a dissertation subject and develop a proposal, consisting of at least the following chapter:

1. Statement of the problem;
2. Review of Pertinent Literature; and
3. Methods.

The proposal shall be presented in a formal meeting including at least the Dissertation Committee. Before the proposal is presented, committee members shall sign a form indicating that they have read the proposal and approve it for presentation. However this is not necessarily an endorsement of the proposal as a research plan.

Dissertation: Original research, dealing with a clearly identified contemporary problem in the selected discipline resulting in a direct contribution to the science, should constitute the key element of the dissertation. The formulation of a scientifically sound hypothesis, coupled with appropriate planning and execution of well designed experiments, followed by analysis of data leading to a solution of the problem is expected.

Defense of Dissertation: Scheduling of the final oral examination (defense of dissertation) should be by mutual agreement of the student and the dissertation committee, and in conformance with the scheduling requirements of Graduate Studies (http://www.grad.usf.edu/thesis_dissertation.asp). The dissertation defense will include a presentation of the results of the Dissertation Research which is open to interested faculty, students, and guests. The Chair of the examination committee shall be a distinguished scholar who is not a member of the dissertation committee, and is from outside the Department of Environmental and Occupational Health in accordance with College of Public Health Policy. The Dissertation Defense (examination) Committee Chair acts as a representative of the Graduate school to ensure that the Defense is both thorough and fair.

Teaching and Assistantships

Teaching: All PhD candidates are required to teach as part of their training. The teaching experiences should include, but not be limited to:

1. Presentation of seminars;
2. Assisting with class preparation;
3. Giving classroom lectures or presentations; and
4. Presentation of research findings at local and /or national meetings.

Students entering the doctoral program with significant teaching experience at the University level may have all or part of this requirement waived or substituted by their committee.

Assistantships: The Department has a limited number of assistantships for PhD students. Students should apply to the EOH Department's Student Affairs and Admissions Committee.

Restriction on Release of Publication: See Graduate Studies website for details at http://www.grad.usf.edu/thesis_dissertation.asp.

Responsibilities of Students: Students are expected to be familiar with:

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- Graduate Catalog at <http://catalog.grad.usf.edu/>
- Department website at <http://publichealth.usf.edu/eoh/>
- College Academic Affairs at <http://publichealth.usf.edu/academicaffairs/>
- Pertinent documents and forms that guide doctoral studies at <http://publichealth.usf.edu/forms.html>.
The student is responsible for assuring appropriate forms are submitted on time.

Environmental Health MPH

Description: Students in the MPH program in Environmental Health gain a broad perspective in the public health sciences and social sciences, and a fundamental education in the technical sciences with an emphasis on the protection and improvement of our environmental and public health. Students enrolled in the MPH program are likely to be recent graduates of a biological science, environmental science or medicine undergraduate program; employees of county or state agencies; in a military education program; or involved in environmental health & safety management with a company. The motivation for an MPH student to complete an advanced degree is to become an environmental scientist or manager; for promotion, better pay and increased competence as an environmental scientist or manager; or as pre-medical training or an opportunity to take and pass the US medical boards. Many MPH students are now or will become community leaders, for example, as US Armed Services or Public Health Service Officers; as State Health Officers; or as Agency or Laboratory Directors.

In addition to the overall [Master of Public Health](#) degree objectives, located at <http://publichealth.usf.edu/mph.html>, *Environmental Health* graduates will be able to:

- Describe natural and engineered environmental systems and their interrelationships with human activities and human health;
- Relate the history of environmental health issues to current practices and policies;
- Apply technical knowledge and skill for the prevention and/or control of specific environmental health problems;
- Communicate orally and in writing relevant information concerning environmental health issues;
- Identify scientific, cultural, political and ethical practices and decisions that may have adverse effects on at-risk human populations or the sensitive ecosystems on each geographical scale;
- Decide between alternatives, or strategies, to minimize or alleviate adverse environmental impacts;
- Interpret published environmental health research findings; and
- Engage in environmental leadership activities at the community level.

Prerequisites

- Public health course prerequisites:
 - HSA 4011 Introduction to Public Health and
 - HSC 4554 Survey of Human Disease, or equivalent courses or experience.
- Suggested/preferred undergraduate majors: biological, physical or chemical science; military science; engineering; nursing or medicine; environmental health and technology; environmental science and policy.
- Prerequisite undergraduate courses: introductory college-level algebra, chemistry, and biology (or related course); calculus and organic chemistry preferred.
- Work experience: None required; two years experience in environmental health preferred.
- Minimum undergraduate GPA: 3.0 *or*
- Verbal GRE Score: minimum 450
- Quantitative GRE Score: minimum 550
- GRE Score may be substituted with an MCAT Score averaging seven or higher.
- International applicants from non English-speaking countries must provide a minimum TOEFL score of 213 (computer-based test) or 550 (written test), taken within 2 years of the desired term of entry.

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Curriculum or Plan of Study

Please see description of courses in this catalog under the main section: Course Listing

College Core Courses (15 credits)

PHC 6000	Epidemiology (3)
PHC 6050	Biostatistics I (3)
PHC 6102	Principles of Health Policy and Management (3)
PHC 6357	Environmental and Occupational Health (3)
PHC 6410	Social and Behavioral Sciences Applied to Health (3)

Required Concentration Courses (15)

PHC 6301	Analysis of Water and Wastewater (3)
PHC 6310	Environmental Occupational Toxicology (3)
PHC 6303	Community Air Pollution (3)
PHC 6512	Vectors of Human Disease (3)
PHC 6356	Industrial Hygiene (2) (<i>or approved course</i>)
PHC 6930	Public Health Seminar (1)

Electives (6) Related to Environmental Health

PHC 6934	Food Safety (3)
PHC 6510	Exotic & Emerging Infectious Diseases (3)
PHC 6934	Water Resources Management Principles (3)
PHC 6354	Safety and Health Administration (2)
PHC 6353	Environmental Risk Assessment (2)
PHC 6313	Indoor Environmental Quality (2)
PHC 6422	Environmental Health Law (2)

Culminating Experiences

- PHC 6945 Supervised Field Experience
 - Students with little or no professional experience: 3 hours minimum
 - Students with two or more years of professional experience in an environmental health field or as an environmental health educator: 1 hour minimum
- PHC 6977 Special Project (3)
- Comprehensive Exam (no credit)

TOTAL CREDITS: 39 plus field experience

College Admission Requirements

<http://publichealth.usf.edu/degreereqs.html>

Special Admission Requirements: None

Dual Degree(s)

<u>MPH / MA</u>	<u>Environmental Health & Anthropology</u>
<u>MPH/PhD</u>	<u>Environmental Health & Anthropology</u>
<u>MPH/PhD</u>	<u>Environmental Health & Biochemistry/Molecular Biology</u>

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Environmental Health MSPH

Description: Students in the MSPH program in Environmental Health receive an education with a greater focus in the technical sciences and public health sciences, and with an emphasis on the protection and improvement of our environmental and public health. Development of research skills is an important aspect of this program. Students enrolled in the MSPH program are likely to be recent graduates of a biological science, environmental science or medicine undergraduate program; employees of county or state agencies; in a military education program; or involved in environmental health & safety management with a company. The motivation for MSPH students to complete an advanced degree is to become an environmental scientist or manager; for promotion, better pay and increased competence as an environmental scientist or manager; or as a prelude to either medical training or a doctoral program.

In addition to the overall Master of Science in Public Health degree objectives, located at <http://publichealth.usf.edu/msph.html>, *Environmental Health MSPH* graduates will be able to:

- Define an environmental health research hypothesis in the context of the interrelationship of human activities and environmental and public health;
- Develop laboratory and field sampling and analyses skills, and data analyses and interpretation skills, to answer a research hypothesis;
- Describe through quality assurance/quality control techniques and statistical methods the validity and significance of research results;
- Communicate orally and in writing research implications, methods, results, and conclusions, demonstrated through the preparation and defense of a thesis;
- Interpret published environmental health research findings; and
- Demonstrate the appropriate research ethics in laboratory practice, data management, and publication of results.

Prerequisites

- Public health course prerequisites:
 - HSA 4011 Introduction to Public Health and
 - HSC 4554 Survey of Human Disease, or equivalent courses or experience.
- Suggested/preferred undergraduate majors: biological, physical or chemical science; military science; engineering; nursing or medicine; environmental health and technology; environmental science and policy.
- Prerequisite undergraduate courses: introductory college-level algebra, chemistry, and biology (or related course); calculus and organic chemistry preferred.
- Work experience: None required.
- Minimum undergraduate GPA: 3.0 *and*
- Verbal GRE Score: minimum 450
- Quantitative GRE Score: minimum 550
- GRE Score may be substituted with an MCAT Score averaging seven or higher.
- International applicants from non English-speaking countries must provide a minimum TOEFL score of 213 (computer-based test) or 550 (written test), taken within 2 years of the desired term of entry.

Curriculum or Plan of Study

Please see description of courses in this catalog under the main section: Course Listing

College Core Courses (9 credits)

PHC 6000 Epidemiology (3)

PHC 6050 Biostatistics I (3)

One other core class as determined by advisor which is typically

PHC 6357 Environmental and Occupational Health (3)

PHC 6102 Principles of Health Policy and Management (3)

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PHC 6410 Social and Behavioral Sciences Applied to Health (3)

Required Concentration Courses (18)

PHC 6301	Analysis of Water and Wastewater (3)
PHC 6310	Environmental Occupational Toxicology (3)
PHC 6303	Community Air Pollution (3)
PHC 6512	Vectors of Human Disease (3)
PHC 6356	Industrial Hygiene (2) (<i>or approved course</i>)
PHC 6051	Biostatistics II (3)
PHC 6930	Public Health Seminar (1)

Electives (9) Related to Environmental Health; Examples follow:

PHC 6701	Computer Applications for Public Health Researchers (3)
PHC 6510	Exotic and Emerging Infectious Diseases (3)
PHC 6934	Water Resources Management Principles (3)
PHC 6353	Environmental Risk Assessment (2)
PHC 6313	Indoor Environmental Quality (2)

Culminating Experiences (6)

- PHC 6971 Thesis (6 credits)
- Comprehensive Exam (no credit)

TOTAL CREDITS: 42

College Admission Requirements

<http://publichealth.usf.edu/degreereqs.html>

Special Admission Requirements: None

Dual Degree(s): None

Industrial Hygiene MSPH

Description: The training in industrial hygiene program is designed to build on the basic skill of engineers and scientists so that they will be able to anticipate, recognize, evaluate, and control hazards in the work place. The curriculum includes the public health core courses, and program courses relating to occupational diseases, exposure assessment, control measures, and assessment of risk. Graduates are expected to contribute to worker health through their ability to gather data, form opinions, recommend solutions and interact with management, employees, and the community in implementing the solutions. Students will have the opportunity to expand their technical base through electives in the areas of environmental health, industrial safety, risk management, and ergonomics. It is expected that the students will pursue professional certification. The MSPH in Industrial Hygiene is accredited by the Related Accreditation Commission of the Accreditation Board of Engineering and Technology ([ABET](#)).

In addition to the overall Master of Science in Public Health degree objectives, located at <http://publichealth.usf.edu/msph.html>, *Industrial Hygiene* graduates will be able to:

- Recognize health hazards that cause illness and injury associated with occupations;
- Apply basic scientific and engineering principles to anticipate and identify actual and potential health hazards in the workplace;
- Interpret literature and incorporate this knowledge into the evaluation and management of occupational health hazards;

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- Apply the principles of engineering in the design of appropriate controls for workplace health hazards;
- Evaluate, use, maintain, and manage the use of appropriate types of personal protective equipment for control of worker exposures;
- Conceptualize, develop, manage, and evaluate health programs in industry and elsewhere;
- Communicate verbally and in writing to professional peers, labor, management, and diverse community populations, the nature, risks, and remediation of occupational health hazards; and
- Interpret and assure compliance with applicable government regulations and national standards for good work practices related to occupational safety and health.

Prerequisites

- Public health course prerequisites: None
- Suggested/preferred undergraduate majors: Science or engineering.
- Prerequisite undergraduate courses: No specific courses, however 63 credit hours of science, mathematics, engineering and technology with at least 15 credit hours in upper division classes.
- Work experience: None required; however, occupational health related work experience is beneficial.
- Minimum undergraduate GPA: Upper division GPA 3.0 **AND**
- Verbal GRE Score: minimum 450
- Quantitative GRE Score: minimum 550
- Other criteria: Letters of recommendation.

Curriculum or Plan of Study

Please see description of courses in this catalog under the main section: Course Listing

College Core Courses (15 credits)

- PHC 6000 Epidemiology (3)
- PHC 6050 Biostatistics I (3)
- PHC 6102 Principles of Health Policy and Management (3)
- PHC 6357 Environmental and Occupational Health (3)
- PHC 6410 Social and Behavioral Sciences Applied to Health (3)

Required Concentration Courses (23)

- PHC 6356 Industrial Hygiene (2)
- PHC 6310 Environmental Occupational Toxicology (3)
- PHC 6361 Industrial Ergonomics (2)
- PHC 6365C Analytical Method in Industrial Hygiene I (2)
- PHC 6366C Analytical Method in Industrial Hygiene II (2)
- PHC 6367 Control Aspects of Industrial Hygiene (2)
- PHC 6423 Occupational Health Law (2)
- PHC 6360 Safety Management Principles and Practices (2)
- PHC 6362 Industrial Ventilation (2)
- PHC 6930 Public Health Seminar (1)
- PHC 6051 Biostatistics II (3)

Electives (4) Examples of common elective options

- PHC 6303 Community Air Pollution (3)
- PHC 6350 Occupational Health Risk Assessment (3)
- PHC 6351 Occupational Medicine for Health Professionals (3)
- PHC 6358C Industrial Hygiene- Physical Agents (2)
- PHC 6422 Environmental Health Law (2)
- PHC 6364 Industrial Hygiene Aspects of Plant Operations (2)
- PHC 6313 Indoor Environmental Quality (2)

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PHC 6306 Radiation Health Principles (2)
EIN 6216 Occupational Safety Engineering (3)
PHC 7935 Biological Monitoring in Industrial Hygiene Environmental Health (2)
PHC 7368 Aerosol Technology in IH (2)
EIN 6215 Engineering System Safety (3)
PHC 7317 Risk Communication in Public Health (2)
PHC 7935 Physiology Topics for Environmental and Occupational Health Professionals (2)
PHC 6369 Industrial Toxicology (2)
PHC 6354 Safety and Health Administration (2)

Culminating Experiences

- PHC 6945 Supervised Field Experience
 - Students with little or no professional experience: 3 hours minimum
 - Students with relevant professional experience: 1 hours minimum
 - Full-time employment in the industrial hygiene field for a minimum of 1 year, or equivalent part-time experience constitutes the term “previous professional experience” worthy of lesser field experience
- PHC 6971 Thesis (6 hours)
- Comprehensive Exam (no credit)

Special Option for Students in Industrial Hygiene MSPH:

Students in Industrial Hygiene must take the Comprehensive Core Exam. However, they may elect to exempt the Concentration Exam after successfully passing one of the following:

- American Board of Industrial Hygiene’s certification exam (CIH)
- Board of Certification for Safety Professionals (CSP core exam)

Students must bring a copy of their certification of passing the exam to their advisor and request that the advisor send a memo and a copy of the aforementioned certification to the College Associate Dean for Academic Affairs requesting a waiver of the Concentration Exam. Once approved, this memo and the copy of the certification will be forwarded to the student’s file.

TOTAL CREDITS: 48 plus field experience

College Admission Requirements

<http://publichealth.usf.edu/degreereqs.html>

Special Admission Requirements: None

Dual Degree(s): None

Occupational Health MPH

Description: The principal concerns of the occupational health professional are: the worker; the work environment and chemical, physical, and ergonomic and biological agents in the workplace. The curriculum is interdisciplinary in nature and scope, addressing topics in these broad areas. The MPH in Occupational Health is a 39 credit program designed for either physicians in practice who are interested in the residency but can not spend 2 years away from their practice (They complete their MPH first while maintaining their practice and then spend only 1 year in the clinical residency program), or for other practicing health professionals.

In addition to the overall Master of Public Health degree objectives, located at <http://publichealth.usf.edu/mpg.html>, *Occupational Health for Health Professionals* graduates will be able to:

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- Summarize the history and social contexts of occupational health and their influence on workers health;
- Identify human and physical factors affecting workers health including geographic, socioeconomic and lifestyle characteristics;
- Apply principles of toxicology in the manifestation of exposure related illnesses;
- Identify the impact on workers of illnesses not related to exposures including psychological disorders;
- Describe special health related programs in industries of major importance to Florida and the nation;
- Determine the role of government regulations, insurance policies and procedures along with the ethical and legal ramifications in treatment and prevention of work related conditions and injury;
- Develop a strategy for a preventive program on a health related issue in the workplace; and
- Identify supportive agencies for dealing with occupational health.

Prerequisites

- Public health course prerequisite: None
- Suggested/preferred undergraduate majors: A clinical degree is required e.g. medicine, nursing, physical therapy, occupational therapy
- Prerequisite undergraduate courses: Science related courses used in preparation for clinical professional degree
- Work experience: Two years of clinical experience preferred
- Minimum undergrad GPA: 3.0 in last 60 hours of undergraduate degree **OR**
- Verbal GRE Score: minimum 450
- Quantitative GRE Score: minimum 550
- Other criteria: Two letters of recommendation, computer skills, resume, goal statement

Curriculum or Plan of Study

Please see description of courses in this catalog under the main section: Course Listing

College Core Courses (15 credits)

PHC 6000	Epidemiology (3)
PHC 6050	Biostatistics I (3)
PHC 6102	Principles of Health Policy and Management (3)
PHC 6357	Environmental and Occupational Health (3)
PHC 6410	Social and Behavioral Sciences Applied to Health (3)

Required Concentration Courses (11)

PHC 6356	Industrial Hygiene (2)
PHC 6423	Occupational Health Law (2)
PHC 6351	Occupational Medicine for Health Professionals (3)
PHC 6360	Safety Management Principles and Practices (2)
PHC 6930	Public Health (EOH) Seminar (1)

Selected Toxicology course from the following list (2-3)

PHC 6310	Environmental Occupational Toxicology (3)
PHC 6359	Xenobiotic Metabolism in Environmental and Occupational Health (3)
PHC 6350	Occupational Health Risk Assessment (3)

Electives (10) Examples of common elective options

PHC 7019	Occupational Epidemiology (3)
PHC 6180	Health Services Management (3)
ENV 5345	Solid Waste Control (3)
PHC 6422	Environmental Health Law (2)

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Culminating Experiences

- PHC 6945 Supervised Field Experience
 - Students with little or no professional experience (one year or less) in occupational health—at least three credits, preferably 6 credits minimum
 - Students with relevant professional experience: 1 hour minimum
- PHC 6977 Special Project (3)
- Comprehensive Exam (no credit)

TOTAL CREDITS: 39 plus field experience

College Admission Requirements

<http://publichealth.usf.edu/degreereqs.html>

Special Admission Requirements: None

Dual Degree(s)

Please see dual degree descriptions in this catalog under the main section: Dual Degrees

MPH / MS Occupational Health and Adult Nursing

Dual degree students in nursing are required to take 12 credits of core courses, 12 credits of concentration courses, and special project for 3 credits. All other requirements are met in the MS in Adult Health Nursing

Occupational Health MSPH

Description: The MSPH in Occupational Health is an academic program that prepares occupational medicine physicians and health professionals with the research and professional knowledge and skills necessary to address the complex health and safety issues found in today's business environment. There is sufficient flexibility to accommodate a variety of interests and career goals, including: practice of occupational medicine in an industrial setting; development, administration and management of occupational health programs, practice of occupational medicine in an industrial setting; the development and management of governmental programs which may be required by law to provide surveillance, monitoring and hazard evaluation; careers in teaching and research in an academic setting or; planning, management and administration of occupational programs in an industrial setting emphasizing epidemiological, clinical and toxicological research. The MSPH curriculum focuses on the worker, the workplace, information management and administration. The student is provided the opportunity to acquire sufficient knowledge and skills to administer and manage occupational health services programs. The MSPH emphasizes protective and preventive policies, procedures, practices and programs. Information management and administration are stressed. The MSPH also gives importance to social, legal, and ethical issues concerns. There is emphasis and sufficient opportunity for conducting research; students are sufficiently prepared to pursue further graduate work (e.g., PhD degree) or pursue a career in an academic institution.

The MSPH in Occupational Health includes an occupational/preventive medicine residency program that is accredited by the Accreditation Council for Graduate Medical Programs. The residency program option is a two year concurrent academic and practicum with academic work in the evenings while the practicum takes place during the day.

In addition to the overall Master of Science in Public Health degree objectives, located at <http://publichealth.usf.edu/msph.html>, *Occupational Health* graduates will be able to:

- Summarize the history and social context of occupational medicine and their influence on workers health;

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- Identify human and physical factors affecting workers health including geographic, socioeconomic and lifestyle characteristics;
- Relate fundamentals of epidemiologic principles to the incidence of work related health problems and conditions;
- Use appropriate research principles and practices in investigating, controlling and preventing occupational health hazards and conditions;
- Apply principles of toxicology in the manifestation of exposure related illnesses and identify illnesses not related to exposures including psychological disorders;
- Work effectively within the health and safety programs in industries of major importance to Florida and the nation;
- Analyze the role of government regulations, insurance policies and procedures along with the ethical and legal ramifications in treatment and prevention of work related conditions and injury;
- Develop a strategy for a preventive program on a health related issue in the workplace from such items as blood borne pathogens, ergonomics, respiratory protection, general preventive medicine, etc.;
- Focus research activities on specific regional workforce needs; and
- Be able to communicate a thorough understanding of occupational and environmental medicine and critical research needs in the field.

Prerequisites

- Public health course prerequisites: None.
- Suggested/preferred undergraduate majors: Majors that prepared candidates for matriculation into medical school; undergraduate majors in other clinical disciplines, e.g. nursing, physical therapy, occupational therapy are acceptable.
- For residency program: Acceptance into the residency requires graduation from an approved medical school and completion of at least two years of clinical training in a primary care specialty. Consideration will also be given for resident applicants with considerable occupational medicine practice experience and only one year of residency training.
- Prerequisite undergraduate courses: Clinical courses associated with a clinical profession.
- Work experience:
 - Residency Program: Two years of a primary care specialty residency program is preferred. Candidates with significant experience or skills will be considered with one year of primary care training.
 - Other health professionals: two years clinical experience preferred.
- Minimum undergrad GPA: Residency program or other physicians with a valid U.S. unrestricted medical license.
- Other health professionals: 3.0 in last 60 credits of undergraduate program and a valid clinical license.
- Verbal GRE Score: Residency Program: waived with documentation of unrestricted valid U. S. medical license.
- Other Health professionals: minimum 450
- Quantitative GRE Score: Residency Program: waived with documentation of unrestricted valid U. S. medical license.
- Other Health professionals: minimum 550

Curriculum or Plan of Study

Please see description of courses in this catalog under the main section: Course Listing

College Core Courses (15 credits)

PHC 6000	Epidemiology (3)
PHC 6050	Biostatistics I (3)
PHC 6102	Principles of Health Policy and Management (3)

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PHC 6357 Environmental and Occupational Health (3)
PHC 6410 Social and Behavioral Sciences Applied to Health (3)

Required Concentration Courses (18)

PHC 6356 Industrial Hygiene (2)
PHC 6351 Occupational Medicine for Health Professionals (3)
PHC 7019 Occupational Epidemiology (3)
PHC 6354 Safety and Health Administration (2)
PHC 6051 Biostatistics II (3)
PHC 6930 Seminar in Occupational and Environmental Research
(1 credit each semester for a minimum of 2 semesters for a total of 2 credits)

*Selected Safety Course (2 credits):

PHC 6360 Safety Management Principles and Practices (2) or other approved safety course (2)

*Selected Toxicology course (2-3 credits)

PHC 6369 Industrial Toxicology (2), PHC 6359 Xenobiotic Metabolism in Environmental and Occupational Health (3), **OR** PHC 6350 Occupational Health Risk Assessment (3)

Electives (2 credits minimum)

It is expected that students will pursue electives that are of most interest to them personally and professionally. They are encouraged to choose a diversity of topics in order to foster a well rounded educational experience.

PHC 6350 Occupational Health Risk Assessment (3)
PHC 6370 Biological and Surface Monitoring (2)
PHC 6364 Industrial Hygiene Aspects of Plant Operations (2)

Culminating Experiences

- PHC 6971 Thesis (6)
- Comprehensive Exam (no credit)

TOTAL CREDITS: 41

College Admission Requirements

<http://publichealth.usf.edu/degree reqs.html>

Dual Degree(s)

Please see dual degree descriptions in this catalog under the main section: Dual Degrees

MSPH/ MD Occupational Health and Medicine

Dual degree students in medicine (MD) complete all the core courses, 14 hours in the concentration, special project and field experience.

Safety Management MPH

Description: The Safety Management program is intended for students with backgrounds in science or engineering seeking a professional public health career in occupational safety. In addition to core public health courses, the program builds upon a variety of courses enabling the student to recognize, evaluate and control existing and potential safety hazards due to faulty equipment, process design, chemical storage and handling. Students are trained to apply these safety principles in assessing engineering controls, personal protective techniques, administrative practices, conducting facility audits and to know when to consult with other environmental and occupational health and safety professionals to prevent or

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control work related injuries, illnesses or discomfort in the workplace. The program is a collaborative effort between the College of Public Health and the College of Engineering.

In addition to the overall Master of Public Health degree objectives, located at <http://publichealth.usf.edu/mph.html>, *Safety Management* graduates will be able to:

- Recognize safety hazards that cause disease/injury associated with occupations;
- Apply basic scientific and engineering principles to anticipate and identify actual potential safety hazards in the workplace;
- Interpret toxicology literature and chemical and safety data and incorporate this knowledge into the management of occupational safety hazards;
- Apply the principles of engineering in the design of appropriate controls for workplace safety hazards;
- Evaluate, use, maintain, and manage the use of appropriate types of personal protective equipment for control of worker exposures;
- Conceptualize, develop, manage and evaluate occupational safety programs in industry and elsewhere;
- Communicate to labor, management, and diverse community populations, both verbally and in writing, the nature, risks, and remediation of workplace safety hazards; and
- Interpret and assure compliance with applicable governmental regulations pertaining to occupational safety and health.

Prerequisites

- Public health course prerequisites: None.
- Suggested/preferred undergraduate majors: science, engineering, technology and management.
- Prerequisite undergraduate courses: no specific courses, however 60 credit hours of science, mathematics, engineering and technology with at least 15 credit hours in upper division classes.
- Work experience: None required; however occupational work experience is beneficial.
- Minimum undergrad GPA: Upper division GPA 3.0 or
- Verbal GRE Score: minimum 450.
- Quantitative GRE Score: minimum 550
- Other criteria: Two Letters of recommendation.

Curriculum or Plan of Study

Please see description of courses in this catalog under the main section: Course Listing

College Core Courses (15 credits)

PHC 6000	Epidemiology (3)
PHC 6050	Biostatistics I (3)
PHC 6102	Principles of Health Policy and Management (3)
PHC 6357	Environmental and Occupational Health (3)
PHC 6410	Social and Behavioral Sciences Applied to Health (3)

Required Concentration Courses (19-20)

PHC 6356	Industrial Hygiene (2)
PHC 6310	Environmental Occupational Toxicology (3)
PHC 6360	Safety Management Principles and Practices (2)
PHC 6361	Industrial Ergonomics (2)

OR

EIN 5245	Work Physiology and Biomechanics (3)
PHC 6354	Safety and Health Administration (2)
PHC 6423	Occupational Health Law (2)
EIN 6215	Engineering System Safety (3)

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EIN 6216 Occupational Safety Engineering (3)

Seminar (1)

PHC 6930 Public Health Seminar (1)

Electives (4-6)

PHC 6303 Community Air Pollution (3)

PHC 6350 Occupational Health Risk Assessment (3)

PHC 6351 Occupational Medicine for Health Professionals (3)

PHC 6422 Environmental Health Law (2)

PHC 6364 Industrial Hygiene Aspects of Plant Operations 92)

Culminating Experiences

- PHC 6945 Supervised Field Experience
 - Students with little or no professional experience: 3 hours minimum
 - Students with relevant professional experience: 1 hours minimum
 - Working in or associated with an occupational health and safety function with orientation in the recognition, evaluation and control of occupational hazards and disease for at least a year
- PHC 6977 Special Project (3)
- Comprehensive Exam (no credit)

TOTAL CREDITS: 45 plus field experience

College Admission Requirements

<http://publichealth.usf.edu/degreereqs.html>

Special Admission Requirements: None

Dual Degree(s): None

Toxicology & Risk Assessment MPH

Description: This concentration area will provide a broad foundation in the biomedical sciences with general and specialized training in toxicology. The program is designed with a balanced curriculum in the areas necessary for understanding the response of human and other organisms to chemical insult and to introduce individuals to the research approaches necessary for the evaluation of these responses. Students will be able to make decisions on the basis of available research findings on potential chemical hazards for humans and animals and to adapt to a rapidly growing body of new knowledge in toxicology.

In addition to the overall Master of Public Health degree objectives, located at <http://publichealth.usf.edu/mph.html>, *Toxicology / Risk Assessment* graduates will be able to:

- Recognize toxicological responses to chemical insult;
- Identify hazardous chemicals, and how they interact with the environment, and the human body;
- Explain uses and limitations of animals for toxicity testing and inferences that can be made for human health effects;
- Analyze risks associated with chemical exposures, both environmental and occupational, and methods of intervention and prevention;
- Identify pathways of chemical exposure;
- Identify the role of toxicologists in public health, medical, environmental and industrial sectors;
- Interpret and translate research findings and apply to problems arising from chemical pollution;
- Identify various laboratory techniques to evaluate chemical, biological and radiological hazards;

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- Build communication skills, both written and verbal;
- Interpret the similarities and differences in the approaches taken by other public health disciplines, and social and behavioral sciences, in the study of health-related problems; and
- Apply ethical principles guiding the conduct of research on human subjects, including principles for ethical decision-making beyond the regulatory purview of institutional review boards.

Prerequisites

- Public health course prerequisites: college requires HSC 4554 Survey of Human Diseases or comparable course for students who do not have public health or biology courses or experience.
- Suggested/preferred undergraduate majors: sciences such as biology, chemistry, physics, and environmental science.
- Prerequisites undergraduate courses: courses in biology and chemistry.
- Work experience: Not required.
- Minimum undergrad GPA: 3.0.
- Verbal GRE Score: minimum 450
- Quantitative GRE Score: minimum 550
- GRE Score may be substituted with an MCAT Score averaging 8 or higher.
- Other criteria: International applicants from non English-speaking countries must provide a minimum TOEFL score of 213 (computer-based test) or 550 (written test), taken within 2 years of the desired term of entry.

Curriculum or Plan of Study

Please see description of courses in this catalog under the main section: Course Listing

College Core Courses (15 credits)

PHC 6000	Epidemiology (3)
PHC 6050	Biostatistics I (3)
PHC 6102	Principles of Health Policy and Management (3)
PHC 6357	Environmental and Occupational Health (3)
PHC 6410	Social and Behavioral Sciences Applied to Health (3)

Required Concentration Courses (21)

HSC 6556	Pathobiology of Human Disease I (3)
PHC 6353	Environmental Risk Assessment (2)
PHC 6310	Environmental Occupational Toxicology (3)
PHC 6359	Xenobiotic Metabolism in Environmental and Occupational Health (3)
PHC 6369	Industrial Toxicology (2)
PHC 6350	Occupational Health Risk Assessment (3)
PHC 6934	Special topics in Public Health (2)
PHC 6930	Public Health Seminar (1)
HSC 6557	Pathobiology of Human Disease II (3)

Culminating Experiences

- PHC 6945 Supervised Field Experience
 - Students with little or no professional experience: 3 hours minimum
 - Students with relevant professional experience: 1 hours minimum
 - Has worked as a professional in the field of toxicology for a period of at least one year constitutes the term "previous professional experience" worthy of lesser field experience.
- PHC 6977 Special Project (3)
- Comprehensive Exam (no credit)

TOTAL CREDITS: 39 plus field experience

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College Admission Requirements

<http://publichealth.usf.edu/degree reqs.html>

Dual Degree(s)

Please see dual degree descriptions in this catalog under the main section: Dual Degrees

MPH / PhD Toxicology and Risk Assessment & Biochemistry / Molecular Biology

Toxicology & Risk Assessment MSPH

Description: This degree program will provide a broad foundation in the biomedical sciences with specialized training in research skills. The program is designed with a balanced curriculum in the areas necessary for understanding the response of organisms to chemical insult, and in the research approaches necessary for the evaluation of these responses. Students will be able to make decisions based upon an understanding of both the uses and the limitations of animal research as it relates to human and health effects. The MSPH provides a thesis experience to allow for research in a well-defined area consistent with the student's and faculty interests.

In addition to the overall Master of Science in Public Health degree objectives, located at <http://publichealth.usf.edu/msph.html>, *Toxicology / Risk Assessment* graduates will be able to:

- Identify hazardous chemicals, and how they interact with the environment, and the human body;
- Recognize uses and limitations of animals for toxicity testing and inferences that can be made for human health effects;
- Analyze risks associated with chemical exposures, both environmental and occupational, and methods of intervention and prevention;
- Identify pathways of chemical exposure;
- Interpret and translate research findings and apply to problems arising from chemical pollution;
- Build communication skills, both written and verbal;
- Apply ethical principles guiding the conduct of research on human subjects, including principles for ethical decision-making beyond the regulatory purview of institutional review boards; and
- Demonstrate, through preparation and defense of a thesis, mastery of research skill and curriculum content.

Prerequisites

- Public health course prerequisite: College requires HSC 4554 Survey of Human Diseases or comparable course for students who do not have public health or biology courses or experience.
- Suggested/preferred undergraduate majors: sciences - biology, chemistry, physics, and environmental science.
- Prerequisites undergraduate courses/courses in biology and chemistry.
- Work experience: Not required.
- Minimum undergrad GPA: 3.0 **and**
- Verbal GRE Score: minimum 450
- Quantitative GRE Score: minimum 550
- GRE Score may be substituted with an MCAT Score averaging 8 or higher.
- Other criteria: International applicants from non English-speaking countries must provide a minimum TOEFL score of 213 (computer-based test) or 550 (written test), taken within 2 years of the desired term of entry.

Curriculum or Plan of Study

Please see description of courses in this catalog under the main section: Course Listing

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College Core Courses (9 credits)

PHC 6000	Epidemiology (3)
PHC 6050	Biostatistics I (3)
	<u>Select one of the following:</u>
PHC 6102	Principles of Health Policy and Management (3)
PHC 6357	Environmental and Occupational Health (3)
PHC 6410	Social and Behavioral Sciences Applied to Health (3)

Required Concentration Courses (25)

PHC 6051	Biostatistics II (3)
HSC 6556	Pathobiology of Human Disease I (3)
PHC 6353	Environmental Risk Assessment (2)
PHC 6310	Environmental Occupational Toxicology (3)
PHC 6359	Xenobiotic Metabolism in Environmental and Occupational Health (3)
PHC 6369	Industrial Toxicology (2)
PHC 6350	Occupational Health Risk Assessment (3)
PHC 6934	Selected topics in Public Health (2)
PHC 6930	Public Health Seminar (1)
HSC 6557	Pathobiology of Human Disease II (3)

Electives (3)

Upon approval by advisor

Culminating Experiences

- PHC 6971 Thesis (6-9)
- Comprehensive Exam (no credit)

TOTAL CREDITS: 43-46

College Admission Requirements

<http://publichealth.usf.edu/degree reqs.html>

Special Admission Requirements: None

Dual Degree(s): None

Dual Degrees

Dual degrees combine a Public Health degree with a degree from another area of study. Following are the dual degree options available for the Department of Environmental and Occupational Health and the offerings vary by concentration. Each of these is linked to a detailed description in this catalog.

Anthropology
Biochemistry / Molecular Biology
Medicine
Physical Therapy (DPT)

Graduate Certificates

Graduate Certificate Programs allow a student to take a concentration in a specific topical area without being admitted to a degree program. Certificates range from 12 to 18 credits to complete, depending on

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the one selected. By comparison, the MPH requires a minimum of 40 credits. This department offers one Graduate Certificate described fully later in this catalog.

Safety Management

Occupational Medicine Residency

Overview: The Occupational Medicine Residency Program focuses both on the use of critical thinking and research approaches in investigations. Residents are trained to recognize, manage and prevent occupational disease and injury. Research focuses on:

1. Prevention of occupational asthma,
2. Newly emerging occupational infectious diseases from blood borne pathogens,
3. Repetitive motion injuries of the upper extremity and back (emphasizing ergonomic control and prevention),
4. Indoor air quality control, and
5. The changing economy and workplace, and its influence on worker safety and health.

The practicum includes at least four months of supervised real world of work training and includes rotations in utility and power industry, aeronautic and space industry, occupational medicine clinics and regulatory agencies. Rotation site locations are described below. Research time is required.

We are proud of our faculty's educational and research accomplishments and we encourage faculty members and residents to work closely together in a supportive environment to refine professional skills in conducting research studies. It is our goal to provide you with an outstanding education that will lead to the greatest development of your skills in preparation of a lifetime of personal and professional gratification and to successful certification by the American Board of Preventive Medicine/Occupational Medicine. The residency is accredited by the Accreditation Council for Graduate Medical Education.

Educational Faculty:

This OMR program has four faculty members on staff:

Stuart M. Brooks, MD, Director

James McCluskey, MD, Deputy Director of Occupational Medicine

Robert Haight, MD, MSPH, Research Faculty

Tom Truncale, DO, MPH, Assistant Professor, Division of Pulmonary, Critical Care and Occupational Medicine

Mission:

The mission of the residency program is to prepare physicians for careers in Occupational Medicine in the 21st century. The residency furnishes a broad base of knowledge which includes all aspects of occupational safety and health with an emphasis on protective and preventive policies, procedures, practices and programs. Graduates are trained to administer, manage and direct clinical occupational health programs. The residency clinical rotations emphasize health of workers and their ability to perform work; the arrangement of work; and the physical, chemical and social environment in the workplace. There is enough flexibility in the program to allow each resident to pursue and achieve individual interests and career goals.

Residency Program Options:

Applicants are strongly encouraged to apply to the two-year concurrent academic and practicum phase residency program. The academic work is completed at the College of Public Health during the evenings,

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while the practicum activities take place in the community during the day. A one year practicum is available for suitable candidates who already have an MPH degree.

Financial Support:

Stipend support and tuition waivers may be provided for residents accepted into the residency.

Admission Requirements

Acceptance into the residency requires graduation from an approved medical school and completion of at least two years of clinical training in an accredited primary care residency in the United States. Consideration will be given for resident applicants having considerable occupational medicine practice experience and a minimum of one year of clinical specialty training. In addition, candidates must have passed all three steps of the USMLE or have possession of a valid state medical license. The Residency Program generally accepts between two and four residents per year.

Course Work Outline:

Public Health Core Courses (15 credits)		Credits
PHC 6000	Epidemiology	3
PHC 6050	Biostatistics	3
PHC 6357	Environmental and Occupational Health	3
PHC 6102	Principles of Health Policy and Management	3
PHC 6410	Social and Behavioral Sciences Applied to Health	3
Occupational Health Core Courses (15 credits)		
PHC 6356	Industrial Hygiene	2
PHC 6310	Environmental Occupational Toxicology	3
PHC 6423	Occupational Health Law	2
PHC 6360	Safety Management Principles and Practices	2
PHC 6351	Occupational Medicine for Health Professionals	3
PHC 6361	Industrial Ergonomics	2
PHC 6354	Safety and Health Administration	2
	Electives	6
	Thesis	6

Applications and Forms to Apply to the Residency:

If you would like to apply to the occupational Medicine Residency, please download the following documents, complete them and then e-mail: kkruse2@mail.usf.edu or mail them to:

Kristen Kruse
Sunshine Education and Research Center
College of Public Health, University of South Florida
13201 Bruce B. Downs Blvd., MDC 56
Tampa, FL 33612-3805

Rotation site locations: These are described in detail on the website at <http://publichealth.usf.edu/eohmedical.html>

- ***Bay Pines Veterans Administration Hospital***
- ***Tampa Electric Company***
- ***COMBI (Comprehensive Occupational Medicine for Business and Industry)***

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- **James A. Haley Veterans Administration Hospital**
- **Kennedy Space Center**
- **Occupational Safety and Health Administration**
- **Heritage Summit Healthcare of Florida, Inc.**
- **Tampa General Hospital (TGH)**

Epidemiology & Biostatistics

Description

Epidemiology is the study of the distribution and causes of diseases from a population-based perspective; it involves the factors affecting disease rates and the distribution of disease and disabilities in populations. As a fundamental science of preventive medicine and public health, epidemiologic research has traditionally focused on questions of disease causation through population studies for both infectious and chronic diseases. The range of topics now addressed by epidemiologic methods includes health promotion, disease prevention, and assessing the quality of health care.

Biostatistics involves the application of statistical techniques in health related fields, including biological sciences, medicine, and public health. The focus is on training students to design studies, manage data collection, process and analyze data within a context of health science research. Examples of its diverse range of application includes testing new drugs to combat AIDS, evaluation of interventions to reduce infant mortality, determination of major risk factors for heart disease or drug abuse, assessment of cost effectiveness in health care services and establishing policy basis for environmental regulations. Since the turn of the 20th century, Biostatistics has formed the quantitative core of scientific research in terms of designing studies and analyzing data.

Programs Offered Table

Department of Epidemiology and Biostatistics		
Concentrations	Degrees	Notes
Epidemiology	MPH MSPH PhD	
Biostatistics	MPH MSPH PhD	
Epidemiology & Biostatistics	MPH	Combined Concentration
Epidemiology & Global Health	MPH	Combined Concentration
Epidemiology for Pediatric Residents or Fellows	MPH	Special Program
Available Certificates		Available Dual Degrees
<ul style="list-style-type: none"> • Epidemiology Certificate • Biostatistics Certificate 		<ul style="list-style-type: none"> • <u>Anthropology (MA or PhD)</u> • <u>Biochemistry/Molecular Biology (PhD)</u> • <u>Medicine (MD)</u> • <u>Physical Therapy (DPT)</u>

Concentrations

Epidemiology Doctor of Philosophy (PhD)

Description: Epidemiology, considered a fundamental science of public health, is the study of the distribution and determinants of disease and disability in populations. Epidemiology is historically rooted in the study of the causes of infectious diseases (epidemics); however, through industrial development and the demographic transition during the 20th century, epidemiology now encompasses the study of all types of health conditions.

The PhD program is designed for a variety of health care professionals who have at least a Master's degree and who are interested in making investigator-initiated epidemiologic research and training of future public health professionals the focal points in their careers. Students should have a solid quantitative background, and while college algebra and calculus are not required for the epidemiology degrees, they are highly recommended for all programs (and required for the Biostatistics degrees). A background in health or biological sciences is also desirable.

Overall competencies for the PhD in Epidemiology are based on the workshop summary on doctoral education in epidemiology sponsored by the American College of Epidemiology and the Association of Schools of Public Health held in Baltimore, MD, December 9-11, 2002. The following are skills or activities that all students at the doctoral level should be able to do well (essential skills):

- Descriptive Epidemiology
 - Produce the descriptive epidemiology of a given condition, including case definition, calculation of the primary measures of disease morbidity and mortality, and appropriate comparisons by person, place and time;
 - List the strengths and limitations of descriptive studies; and
 - Identify data from existing national and international sources.
- Biology
 - Complete course work or equivalent in human physiology and Pathophysiology, with special competence in the disease addressed in the student's dissertation.
- Basic knowledge of the leading public health problems and the history of the discipline
 - Identify the major chronic and infectious diseases, their general Pathophysiology, descriptive epidemiology and risk factors;
 - Identify leading causes of death;
 - Understand the general history of the development of epidemiology, including the major epidemiological studies of selected diseases;
 - Know the principles of screening and of surveillance systems, including understanding the concepts of validity and reliability of screening tests and be able to calculate associated measures and know the types of surveillance systems and approaches used in disease surveillance; and
 - Understand the global, cultural and social context of health problems and how these influence the conduct, interpretation and dissemination of research in and intervention studies.
- Problem conceptualization
 - Search the literature
 - Review and critically evaluate the literature (be familiar with different approaches to reviewing and synthesizing the literature);
 - Synthesize available information;
 - Identify meaningful gaps in knowledge; and
 - Formulate an original and key hypothesis or statement of the research problem.
- Study design
 - Design a study using any of the main study designs (including clinical trials and community trials);
 - Understand the advantages and limitations of each design for addressing specific problems, as well as the practical aspects of their uses, including trade-offs. This

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- understanding will be reflected in selecting the most appropriate and efficient design for a designated problem;
- Calculate the requisite sample size or power based on pre-determined sample size;
- Identify and minimize sources of bias. Describe both the direction and magnitude of the bias and the effect of potential biases on the measures of association; and
- Use basic population sampling methods.
- Data collection and monitoring
 - Use methods of measurement:
 - design data collection forms assessing both exposures and outcomes;
 - determine the validity and reliability of the instrument(s);
 - identify the presence and magnitude of measurement error; and
 - adjust for measurement error when appropriate data are available.
 - Monitor the conduct and progress of data collection; and
 - Develop, implement and assess quality control measures.
- Data management
 - Create data files appropriate for analysis; and
 - Carry out the steps needed to create new variables, clean data sets, etc.
- Data analysis
 - Use statistical computer packages to calculate and display descriptive statistics, analyze categorical data and perform multivariable regression, survival analysis and other longitudinal data analyses; and
 - Examine data for the presence of confounding and interaction (effect-modification), identify their presence and manage them appropriately.
- Interpretation
 - Interpret the research results, make appropriate inferences based on results, and recognize the implications of the research results.
- Communication
 - Communicate research results orally and in writing to both scientists and non-scientists (includes preparation of a manuscript suitable for publication in a scientific journal and presentation of research proposals); and
 - Present research data in both tabular and figure forms.
- Ethics
 - Understand the concepts of human subjects procedures and confidentiality, and awareness of particular issues relevant to the study of specific populations; and
 - Apply this understanding as evidenced in the design and conduct of the research.
- Substantive area
 - Demonstrate mastery of a substantive area, including knowledge and application of that knowledge in conducting original research related to a specific topic.
- Project management
 - Demonstrate a proficiency in understanding the challenges in project management of an epidemiologic field study, including issues surrounding hiring study personnel, developing and managing budgets, managing study teams and assuring high quality data.

Prerequisite Training: The college-wide requirement for PhD prerequisites (see <http://publichealth.usf.edu/degereqs.html>); health-related masters or professional degree, and computer literacy. Strongly recommended is training in quantitative skills at the level of college calculus or higher.

Coursework: Graduate Studies at USF requires a minimum of 90 credit hours beyond the baccalaureate degree for the doctoral degree. In order to meet the college requirement of "90 credits beyond the baccalaureate," most students will need to complete a total of 50-57 credit hours beyond the masters degree **including 18 hours in epidemiology and biostatistics**. The remaining credits are made up of course electives, which may or may not be within the department and a *minimum* of 18 credits of dissertation. Coursework in other departments or colleges may be required by the individual's doctoral

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committee. In addition, the overall coursework must include 13 hours at the 7000 level and three doctoral level seminars.

Doctoral Qualifying Exam: After the major professor has agreed that the student has completed the necessary coursework, the student may apply to take the exam.

The Qualifying Examination in Epidemiology has two components: (A) an 8-hour closed-book examination and (B) a 2-week written examination. (which will occur approximately two years after beginning the program of study, if full-time). These are detailed below:

- A. The first section is an 8-hour general, closed-book examination, which focuses on the synthesis and application of epidemiologic knowledge to specific problems covered in the Core Competencies for the Ph.D. program in Epidemiology . Additionally, concepts from Advanced Research Methods and Survival Analysis will be examined.
- B. The second section is a two-week written examination in which the student will be given an epidemiologic research question (such as an association between an etiologic exposure and an outcome) and asked to fully review the literature and design a study to address the question using the NIH (PHS 398) grant format.

Students must be prepared to block out two weeks in their schedules for the completion of Section B of the examination

Passing/failing the Qualifying Examination: Students are allowed to take Sections A and B a total of two times each and must pass both sections to continue in the program. If the student fails one of the two sections, s/he must re-take the failed section the next time the examination is offered. A passing total score of at least 80 (of 100) is required in order to pass on each section. If a score of 80 is not achieved, the entire failed section (A or B) must be re-taken. If the student fails to pass a second time, the student can not continue in the doctoral program, but may transfer to the MPH or MSPH program.

Admissions

In addition to the USF (<http://www.grad.usf.edu/>) and College (<http://publichealth.usf.edu/degree reqs.html>) requirements, the Departmental has the following admissions requirements:

Students applying for the PhD in Public Health must submit their application and required credentials to the University of South Florida **Graduate Admissions** (<http://admissions.grad.usf.edu/>) Office by December 15 for Fall Semester admittance. The documents will be assembled and forwarded to the College of Public Health. Applicants to the doctoral program in Public Health must meet the following minimum criteria in order to be considered for admission. However, the meeting of these criteria *per se* shall not be the only basis for admission.

- Verbal GRE score: minimum 480 taken within 5 years preceding the application
- Quantitative GRE score: minimum 620 taken within 5 years preceding the application AND
- Grade Point Average of 3.0 is required
- To be competitive, epidemiology PhD applicants should have a score of 700 on the quantitative section of the GRE.
- A faculty match to provide appropriate mentorship to students is essential for acceptance. There must be a faculty member in the department who is willing to mentor each accepted PhD student.
- Each applicant must submit evidence of written/analytic skills to the College of Public Health, which are:
 - a) A graduate level term paper, thesis, or research paper of which the student is the sole author, or publication on which the student is the first author; and

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- b) A detailed personal statement of less than five pages that describes why the applicant wishes to obtain a PhD degree in Public Health specializing in Epidemiology or Biostatistics at the University of South Florida.

Applicants seeking consideration to the doctoral program must possess the MPH, MSPH, or equivalent in an allied discipline. Those who hold other graduate degrees will be considered, but as a prerequisite, they must complete the Epidemiology and Biostatistics core courses, one additional core course, and other courses as required and approved by their advisor. Each applicant must submit at least two formal letters of support (preferably 3) from academic and/or employment sources. Letters from personal acquaintances will not be accepted.

In order to be considered for admission to the PhD Program in Epidemiology or Biostatistics, applicants must be fully prepared to register as full-time students, for at least one full academic year (consecutive Fall and Spring semesters).

Upon acceptance to the doctoral program in Public Health, each student shall sign a "letter of understanding" regarding the stages in the doctoral degree process.

- a) Successful completion of required coursework;
- b) Evidence of teaching proficiency;
- c) Successful performance on the following:
 - (i) Comprehensive examination for admission to doctoral candidacy and formation of the doctoral committee;
 - (ii) Preparation of dissertation proposal and written and oral defense of this proposal;
 - (iii) Conduct of dissertation research activities and preparation of dissertation document; and
 - (iv) Formal and successful defense of dissertation.

Advising

Upon admission an initial advisor is assigned. As the student's research interest develops, usually by the end of the first academic year, the student will select a major professor in the area of expertise of the planned dissertation research. The major professor may be the student's advisor or another faculty member may be selected. Once a major professor is chosen, a doctoral committee will be approved for the student. Note that the major professor must be fully credentialed by the College. Whenever a new committee appointment or a change is made to an existing committee, submit the **Graduate Student Supervisory Committee Form**. Find this form at http://www.grad.usf.edu/Thesis_and_Dissertations/Thesis_and_Dissertation_settingupthesupervisorycommittee.asp.

The student is responsible for obtaining signatures of all committee members. The form is then submitted to the Department's Administrative Office. The Doctoral Committee will approve the student's course of study and plan for research, supervise the research, grade the written comprehensive examination, read and approve the dissertation, and conduct the dissertation defense. The Doctoral Committee will consist of at least four members, three of whom must come from the academic area in which the major work for the degree will be done.

The dissertation committee is usually formed at the end of the first full year of courses. This committee must be formed and approved before the student is allowed to register for doctoral dissertation hours. This signed form is then submitted to the Academic Affairs Office in the College of Public Health building (phone: 813/974-6505).

If the research involves human subjects, even if it involves secondary data, the student must apply for IRB approval before starting on this work. Access information at <http://publichealth.usf.edu/officeresearch/humansubjects.html>.

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Teaching

In addition, each doctoral student is required to demonstrate proficiency in teaching. A student entering with a master's degree in Epidemiology or Biostatistics must still complete 50-57 credits, so basic Epidemiology and Biostatistics courses will have to be replaced with other courses or more dissertation hours.

Non-Credit Courses

Seminars: Departmental seminars are held regularly throughout the academic year, usually weekly or every two weeks. Even though seminar participation is not graded in a formal setting, the seminar attendance is required as part of a student's training.

Dissertation

It is essential that the thesis or dissertation be submitted in an acceptable format. The Office of Graduate Studies has streamlined the procedure for the format check of your manuscript. Students are required to follow the format given in Graduate Studies Thesis and Dissertation web site at http://www.grad.usf.edu/thesis_dissertation.asp.

Dissertation Proposal Presentation and Written Defense

The student will write his/her proposal using the NIH PHS 398 grant application format and will orally defend the proposal in a public defense in which the Doctoral Committee and other interested parties are present. Upon successful completion of the oral defense, the student is given permission to begin the dissertation. Dissertation topics must be selected in subject areas in which there is sufficient faculty expertise within the full-time faculty of the department to provide appropriate guidance for the student's dissertation research.

The student orally defends their proposal in a seminar format. In addition to questions asked verbally at the proposal defense, each committee member optionally has one week after the presentation to submit written questions to the dissertation advisor and forwarded to the student. Such questions must be answered in writing within two weeks after receipt by the student (within three weeks after the proposal presentation). The proposal must be successfully defended for the student to continue.

Doctoral Defense

At the end of the dissertation project, the student will defend their work in a public defense attended by the doctoral committee and any interested individuals who wish to attend. The doctoral student must have met regularly with his/her committee such that the defense is a *pro forma* event and the committee is apprised well in advance on the progress of the student toward completion of the degree. The student must provide all committee members a final draft dissertation at least four weeks before the desired defense date. Before the defense can be scheduled, the student must have the form *Request for the PhD / EdD Final Oral Examination* (located at <http://publichealth.usf.edu/forms.html>) completed and signed off by all committee members and provided to the department Chair. Once the form has been approved, a final draft copy of the dissertation must be provided to the department Chair for review by any interested college faculty member. The defense is scheduled to last about two hours. Students must fill out the *defense form* (also located at <http://publichealth.usf.edu/forms.html>) and coordinate the posting with the Department Administrative Office.

Students must also name a chair of the defense from outside the department selected from faculty in another department of the college or other USF colleges. The chair organizes and runs the defense.

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The defense begins with an introduction of the student by the defense chair. The student then presents the dissertation with a formal 40-60 minute presentation. Following this, questions are asked by the committee, usually in three or more rounds. Questions are then entertained from attending faculty, students and others in that order. Upon completion of questioning, the doctoral student and audience must leave the room and the committee discusses the final disposition of the student's dissertation. Students must be prepared for some modifications (including additional statistical analyses) to the dissertation, such that the student should plan the defense to occur with sufficient time before the graduation deadlines such that all the committee members' concerns can be addressed.

Application for Degree

Each student planning to complete the degree requirements by the end of a term must submit an Graduate Degree Graduation Application http://www.registrar.usf.edu/data_display.php?link_type=Forms) by the deadline noted in the Academic Calendar for the term in which the student expects to graduate. **The student must file an application whether or not the student is participating in the commencement ceremony.** Completed forms should be turned in to the College Academic Affairs Office Room 1150. Note that students must be enrolled for at least 2 credit hours in the semester they wish to graduate.

Biostatistics Doctor of Philosophy (PhD)

Description: Biostatistics involves the development and application of statistical techniques to scientific research in health-related fields, including medicine, biology, and public health. From the beginning of the 20th century, the field of biostatistics has been at the quantitative core of efforts to improve health and reduce illness. Biostatisticians play indispensable roles in designing studies and analyzing data from every health-related study as diverse as the testing of new drugs to combat AIDS, the evaluation of interventions to reduce infant mortality, the determination of major risk factors for heart disease, psychiatric symptoms, and drug and alcohol use in teenagers.

The PhD program provides advanced training and research opportunities in statistical theory, biostatistical methods, and their applications in a wide spectrum of health research areas including epidemiology, mental health prevention, environmental health, clinical trials, and health services research. With a curriculum that is both interdisciplinary and adaptive to individual student needs and interests, the program prepares students for research careers as methodologists in academia, government, pharmaceutical industry, and health care organizations. The students should have a strong quantitative background and a Master's degree in a closely related field prior to admission. Financial support is available to qualified accepted students, and includes a stipend and 80% in-state tuition waiver for the first two years of study. Opportunities exist for additional support.

The Biostatistics program requires students to master material in the following general competency areas:

- **Mathematical Statistics and Probability:** This includes properties of common distributions for data and statistics, limit theorems, and theories of testing and estimation.
- **Statistical Methodology:** This area covers techniques for formal design and analysis of data, including linear models and generalized linear models, mixed models, survival models, non-parametric, and semi-parametric approaches to model building and testing, and bias, variance, and robustness properties of estimators.
- **Exploratory Data Analysis:** Graphical and other informal techniques for data description and model diagnostics.
- **Applied Statistics:** Analysis of research questions from existing data sets. Students need to modify models to fit the data while paying attention to practical problems of missing data and

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violations of model assumptions. Substantive knowledge about the research questions needs to be integrated with the data at hand.

- **Statistical Consulting:** Students are trained to interact with health researchers to help articulate hypotheses from general research agendas, determine appropriate designs to use, and produce appropriate analyses of these data.
- **Statistical Computing and Data Management:** Principles of computational statistics, including numerical analysis, pseudorandom number generation and selection of simple or stratified random samples, solution of linear and nonlinear equations, various algorithms for missing data, Bayesian solutions, as well as techniques for manipulating and documenting data sets.
- **Public Health Background:** A basic understanding of epidemiologic methods, particularly in relation to study designs, is required. In addition, students will be exposed to various content areas in public health and will be required to apply their analytical and design skills to problems in public health.
- **Biostatistical Research:** Through both exposure to the biostatistical literature and to proposal writing and review, biostatistics students will learn how to apply their skills within a research setting.

Coursework: The PhD degree in Biostatistics requires a minimum of 90 credit hours beyond the baccalaureate degree. The curriculum requires a minimum of 52 credits hours of course work that includes: 18+ hours in Biostatistics concentration areas; 6+ hours for research tools; 9+ hours for a minor study field; at least 18 hours of dissertation; and 1-3 hours of interdisciplinary seminar. Candidates without prior training in Public Health are further required to take 9 credit hours of Public Health core courses. Minor fields of study as well as research tools will be determined jointly by the student and advisory committee, based on the student's interests and research areas.

Doctoral Qualifying Exam: After the Advisory Committee has determined that the student has completed the required coursework, the student may apply to take the exam.

The student must take and pass the exam within the first five years of residency. The PhD Comprehensive Qualifying Examination tests competencies in: (1) Biostatistical Methods, (2) Computation/Data Analysis, and (3) Consultation Skills.

Part 1 is a six-hour in-house examination focusing on areas (1) and (2).

Part 2 is a take-home examination in which the student is required to write a section on the design and analysis of a grant proposal, or conduct a real analysis. The student has one week to complete this section.

Part 3 of the Comprehensive Qualifying Examination is an oral exam in which the student may be asked a variety of research related questions, or questions that were not answered to the faculty member's satisfaction on the in-house written examination. The Examination Committee determines whether or not Part 3 is necessary

Passing/failing the Qualifying Examination: A minimum score of 70% on the written and take-home portions and "satisfactory" completion of the oral portion of the exam, constitute a passing grade. If the student fails the examination once, he/she must retake it. If the student fails twice, he/she is terminated from the program. If a partial failure (i.e. written exam) is determined by the committee, a re-take of that failed part should be arranged.

Admissions

In addition to the USF (<http://www.grad.usf.edu/>) and College (<http://publichealth.usf.edu/degree reqs.html>) requirements, the Departmental has the following admissions requirements:

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Students applying for the PhD in Public Health must submit their application and required credentials to the University of South Florida **Graduate Admissions** (<http://admissions.grad.usf.edu/>) Office by December 15 for Fall Semester admittance. The documents will be assembled and forwarded to the College of Public Health. Applicants to the doctoral program in Public Health must meet the following minimum criteria in order to be considered for admission. However, the meeting of these criteria *per se* shall not be the only basis for admission.

- Verbal GRE score: minimum 480 taken within 5 years preceding the application
- Quantitative GRE score: minimum 620 taken within 5 years preceding the application AND
- Grade Point Average of 3.0 is required
- To be competitive, biostatistics PhD applicants should have a score of 700 on the quantitative section of the GRE.
- A faculty match to provide appropriate mentorship to students is essential for acceptance. There must be a faculty member in the department who is willing to mentor each accepted PhD student.
- Each applicant must submit evidence of written/analytic skills to the College of Public Health, which are:
 - c) A graduate level term paper, thesis, or research paper of which the student is the sole author, or publication on which the student is the first author; and
 - d) A detailed personal statement of less than five pages that describes why the applicant wishes to obtain a PhD degree in Public Health specializing in Epidemiology or Biostatistics at the University of South Florida.

Applicants seeking consideration to the doctoral program must possess the MPH, MSPH, or equivalent in an allied discipline. Those who hold other graduate degrees will be considered, but as a prerequisite, they must complete the Epidemiology and Biostatistics core courses, one additional core course, and other courses as required and approved by their advisor. Each applicant must submit at least two formal letters of support (preferably 3) from academic and/or employment sources. Letters from personal acquaintances will not be accepted.

In order to be considered for admission to the PhD Program in Epidemiology or Biostatistics, applicants must be fully prepared to register as full-time students, for at least one full academic year (consecutive Fall and Spring semesters).

Upon acceptance to the doctoral program in Public Health, each student shall sign a "letter of understanding" regarding the stages in the doctoral degree process.

- d) Successful completion of required coursework;
- e) Evidence of teaching proficiency;
- f) Successful performance on the following;
 - (v) Comprehensive examination for admission to doctoral candidacy and formation of the doctoral committee;
 - (vi) Preparation of dissertation proposal and written and oral defense of this proposal;
 - (vii) Conduct of dissertation research activities and preparation of dissertation document; and
 - (viii) Formal and successful defense of dissertation.

Advising

Upon admission an initial advisor is assigned. As the student's research interest develops, usually by the end of the first academic year, the student will select a major professor in the area of expertise of the planned dissertation research. The major professor may be the student's advisor or another faculty member may be selected. Once a major professor is chosen, a doctoral committee will be approved for the student. Note that the major professor must be fully credentialed by the College. Whenever a new committee appointment or a change is made to an existing committee, submit the **Graduate Student Supervisory Committee Form**. Find this form at

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http://www.grad.usf.edu/Thesis_and_Dissertations/Thesis_and_Dissertation_settingupthesupervisorycommittee.asp.

The student is responsible for obtaining signatures of all committee members. The form is then submitted to the Department's Administrative Office. The Doctoral Committee will approve the student's course of study and plan for research, supervise the research, grade the written comprehensive examination, read and approve the dissertation, and conduct the dissertation defense. The Doctoral Committee will consist of at least four members, three of whom must come from the academic area in which the major work for the degree will be done.

The dissertation committee is usually formed at the end of the first full year of courses. This committee must be formed and approved before the student is allowed to register for doctoral dissertation hours. This signed form is then submitted to the Academic Affairs Office in the College of Public Health building (phone: 813/974-6505).

If the research involves human subjects, even if it involves secondary data, the student must apply for IRB approval before starting on this work. Access information at <http://publichealth.usf.edu/officeresearch/humansubjects.html>.

Teaching

In addition, each doctoral student is required to demonstrate proficiency in teaching. A student entering with a master's degree in Epidemiology or Biostatistics must still complete 50-57 credits, so basic Epidemiology and Biostatistics courses will have to be replaced with other courses or more dissertation hours.

Non-Credit Courses

Seminars: Departmental seminars are held regularly throughout the academic year, usually weekly or every two weeks. Even though seminar participation is not graded in a formal setting, the seminar attendance is required as part of a student's training.

Dissertation

It is essential that the thesis or dissertation be submitted in an acceptable format. The Office of Graduate Studies has streamlined the procedure for the format check of your manuscript. Students are required to follow the format given in Graduate Studies Thesis and Dissertation web site at http://www.grad.usf.edu/thesis_dissertation.asp.

Dissertation Proposal

After the student has completed a written proposal for his/her dissertation including background, rationale and methods, he/she presents the proposal in depth to all members of his/her committee in a closed seminar. At this time, (if the committee is satisfied), the student files an Approval of Research proposal form, signed by all committee members. This form is kept in the student's file in the departmental office.

Doctoral Defense

At the end of the dissertation project, the student will defend their work in a public defense attended by the doctoral committee and any interested individuals who wish to attend. The doctoral student must have met regularly with his/her committee such that the defense is a *pro forma* event and the committee is apprised well in advance on the progress of the student toward completion of the degree. The student must provide all committee members a final draft dissertation at least four weeks before the desired defense date. Before the defense can be scheduled, the student must have the form *Request for the PhD*

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/ EdD Final Oral Examination (located at <http://publichealth.usf.edu/forms.html>) completed and signed off by all committee members and provided to the department Chair. Once the form has been approved, a final draft copy of the dissertation must be provided to the department Chair for review by any interested college faculty member. The defense is scheduled to last about two hours. Students must fill out the *defense form* (also located at <http://publichealth.usf.edu/forms.html>) and coordinate the posting with the Department Administrative Office.

Students must also name a chair of the defense from outside the department selected from faculty in another department of the college or other USF colleges. The chair organizes and runs the defense.

The defense begins with an introduction of the student by the defense chair. The student then presents the dissertation with a formal 45-60 minute presentation. Following this, questions are asked by the committee, usually in three or more rounds. Questions are then entertained from attending faculty, students and others in that order. Upon completion of questioning, the doctoral student and audience must leave the room and the committee discusses the final disposition of the student's dissertation. Students must be prepared for some modifications (including additional statistical analyses) to the dissertation, such that the student should plan the defense to occur with sufficient time before the graduation deadlines such that all the committee members' concerns can be addressed.

Application for Degree

Each student planning to complete the degree requirements by the end of a term must submit an Graduate Degree Graduation Application http://www.registrar.usf.edu/data_display.php?link_type=Forms) by the deadline noted in the Academic Calendar for the term in which the student expects to graduate.

The student must file an application whether or not the student is participating in the commencement ceremony. *Completed forms should be turned in to the College Academic Affairs Office Room 1150.* Note that students must be enrolled for at least 2 credit hours in the semester they wish to graduate.

Epidemiology MPH

Description: The MPH program in Epidemiology is a professional degree, intended for individuals who wish to obtain a broad understanding of public health, with an emphasis on epidemiologic principles and methods. The knowledge and skills obtained through the program will enable graduates to characterize the health status of communities, critically evaluate research on determinants of health-related events, formulate strategies to evaluate the impact of health related interventions and foster the application of epidemiologic methods for health promotion/disease prevention activities at the community level.

In addition to the overall [Master of Public Health](#) degree objectives, located at <http://publichealth.usf.edu/mpg.html>, *Epidemiology* graduates will be able to:

- Describe the history and theory of epidemiology;
- Apply the methods of epidemiology to problems of health promotion, disease prevention and control;
- Compare and contrast experimental and observational study designs in epidemiology;
- Recognize risk factors and the relationships to health outcomes in diverse populations;
- Demonstrate skills in review of the literature, data management, data analysis and interpretation of results;
- Apply epidemiologic knowledge and skills in a public health setting; and
- Articulate ethical issues relating to epidemiologic research in a public health setting.

Prerequisites

- Public health course prerequisites:
 - HSC 4554 Survey of Human Diseases

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- HSA 4011 Introduction to Public Health
- Or an equivalent course is required for students who lack training in public health or biological sciences.
- Suggested/preferred undergraduate majors: mathematics, statistics, computer sciences, natural sciences, biology, social sciences, nursing, medicine, dentistry, veterinary medicine, pharmacology, gerontology, allied health professions, environmental health, management information systems.
- Prerequisite undergraduate courses: college algebra, basic computer skills (e.g. operating system, internet, word processing, spread sheet), human structure and function, human health biology. Calculus is recommended.
- Work experience: Prior work experience is preferred, but not required.
- Verbal GRE score: minimum 450
- Quantitative GRE score: minimum 550
- Minimum undergraduates GPA: 'B' average (3.0 on a 4 point scale)
- Other criteria: Academic background, goal statement, student's academic interests, references and availability of faculty and facility resources are also considered as part of the entrance evaluation.

Curriculum or Plan of Study

Please see description of courses in this catalog under the main section: Course Listing

Curriculum or Plan of Study

Note: All courses are 3 credit hours each unless otherwise noted.

Required College Core Courses 15 hours

PHC 6000 –Epidemiology
PHC 6050 – Biostatistics
PHC 6102 – Principles of Health Policy and Management
PHC 6410 – Social and Behavioral Science Applied to Health
PHC 6357 – Environmental and Occupational Health

Required Concentration Area Courses 18 hours

PHC 6934 –Epidemiology Methods I
PHC 6934 –Epidemiology Methods II
PHC 6051 – Biostatistics II
PHC 6053 – Categorical Data Analysis
PHC 6701 – Computer Applications for Public Health Workers
PHC 6934 – Public Health Database Management

Emphasis area support courses 9 hours

Students will select additional coursework from the following categories:

1 Course in Infectious Disease Epidemiology
1 Course in Chronic Disease Epidemiology
1 Additional Elective

Additional requirements 4-15 hours

PHC 6977 – Special Project 3 hours
PHC 6945 – Supervised Field Experience 1-12 hours

Comprehensive Exam (no credit)

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Total minimum number of credit hours: 45(+ Supervised Field Experience)

College Admission Requirements

<http://publichealth.usf.edu/degereqs.html>

Dual Degree(s)

MPH / MA	Epidemiology / Anthropology
MPH/MD	Epidemiology / Medicine
MPH/PhD	Epidemiology / Anthropology
MPH/PhD	Epidemiology / Biology or Biochemistry

Epidemiology MSPH

Description: The MSPH program in Epidemiology is an academic degree, is geared toward students who want a solid foundation in research methods and who wish to become members of a public health epidemiologic research team. Related to health promotion, disease prevention and control, students acquire knowledge and skills in study design, data management, analysis and interpretation of study results. A thesis involving primary or secondary data analysis is required.

In addition to the overall Master of Science in Public Health degree objectives, located at <http://publichealth.usf.edu/msph.html>, *Epidemiology* graduates will be able to:

- Describe the history and theory of epidemiology;
- Apply the methods of epidemiology to problems of health promotion, disease prevention and control;
- Determine the appropriate uses and limitations of experimental and observational study designs in epidemiology;
- Evaluate risk factors and the relationships to health outcomes in diverse populations taking into consideration bias and effect modification;
- Integrate the epidemiology of specific diseases with research methodology;
- Conduct an independent research project including hypothesis generation, review of the literature, data management, analysis, interpretation, and written and oral communication of findings; and
- Apply ethical principles to the design, collection, maintenance, use, and dissemination of data and information.

Prerequisites

- Public health course prerequisites:
 - HSC 4554 Survey of Human Disease
 - HSA 4011 Introduction to Public Health
 - Or an equivalent course is required for students who lack training in public health or biological sciences.
- Suggested/preferred undergraduate majors: Mathematics, statistics, computer sciences, natural sciences, biology, social sciences, nursing, medicine, dentistry, veterinary medicine, pharmacology, gerontology, allied health professions, environmental health, management information systems.
- Prerequisite undergraduate courses: college algebra, basic computer skills (e.g. operating system, internet, word processing, spread sheet), human structure and function, human health biology or equivalent. Calculus is strongly recommended.
- Work experience: Prior work experience is preferred, but not required.
- Minimum undergrad GPA: 3.0 on a 4 point scale in the upper division coursework.
- Verbal GRE Score: minimum 500
- Quantitative GRE Score: minimum 550

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- Other criteria: Academic background, goal statement, student's academic interest, references and availability of faculty and facility resources also are considered part of the entrance evaluation.

Curriculum or Plan of Study

College Core Courses (9 credits)

PHC 6000	Epidemiology (3)
PHC 6050	Biostatistics I (3)
	<u>And one of the following:</u>
PHC 6102	Principles of Health Policy and Management (3)
PHC 6357	Environmental and Occupational Health (3)
PHC 6410	Social and Behavioral Sciences Applied to Health (3)

Required Concentration Courses (9)

PHC 6051	Biostatistics II (3)
PHC 6700	Research Methods in Epidemiology (3)
PHC 6701	Computer Applications for Health Researchers (3)

Emphasis Areas Support Courses "Selectives" (21)

Some courses may fit in more than one category, but will only be credited in one. See advisor for specific course classification.

Selectives Include: Two Courses in Specific Disease or other conditions (6)

Examples of common options:

PHC 6074	Epidemiology of Diseases of Major Public Health Importance (3)
PHC 6075	Cancer Epidemiology
PHC 6002	Infectious Disease Epidemiology (3)
PHC 6934	Reproductive and Perinatal Epidemiology (3)

Selectives Include: Two Additional Courses in Biostatistics (6)

Examples of common options:

PHC 6053	Categorical Data Analysis (3)
PHC 6055	Survival Analysis (3)
HSC 6056	Survey Sampling Methods in Health Science (3)

Selectives Include: Two Additional Courses Epidemiology Methods (6)

Examples of common options:

PHC 6017	Design and Conduct of Clinical Trials (3)
PHC 6934	Observational Study Design (3)
PHC 7001	Practical Issues in Epidemiology (3)
PHC 7703	Advanced Research Methods in Epidemiology (3)

Selectives Include: One Additional Course in Computing/Data Management (3)

PHC 7935	Advanced Computer Applications for Health Researchers (3)
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Culminating Experiences

- PHC 6971 Thesis (6 minimum)
- Core Comprehensive Exam (no credit)

TOTAL CREDITS: 45

College Admission Requirements

<http://publichealth.usf.edu/degereqs.html>

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Dual Degree(s): None

Biostatistics MPH

Description: The MPH program in Biostatistics provides educational opportunities for students to acquire a broad knowledge in biostatistics and apply biostatistical methods to public health problems. The MPH program emphasizes the applications of quantitative methods to a broad range of public health problems. The intended audience of the program includes individuals with strong quantitative background and interests in a professional career in a public health setting. The program trains students to be able to design studies, to implement data collection and management plans, to formulate analysis plans and conduct analysis, and to report and communicate analytical results. The program will also provide students with knowledge in statistical and computational methods and public health.

In addition to the overall [Master of Public Health](http://publichealth.usf.edu/mph.html) degree objectives, located at <http://publichealth.usf.edu/mph.html>, *Biostatistics* graduates will be able to:

- Apply biostatistical methods to the design of experimental and observational studies with respect to sample selection, randomization, and power;
- Apply common probability distributions to public health outcomes;
- Use statistical techniques including descriptive statistics, data exploration, estimation, hypothesis testing, and modeling;
- Demonstrate basic data management skills and use common statistical software packages for data analysis;
- Communicate effectively to public health practitioners in terms of formulating research problems and interpreting statistical results;
- Read and interpret scientific literature on selected public health topics; and
- Demonstrate knowledge of ethical issues related to the use of biostatistics in public health.

Prerequisites

- Public health course prerequisites:
 - HSC 4554 Survey of Human Diseases
 - HSA 4011 Introduction to Public Health
 - Or an equivalent course is required for students who lack training in public health or biological sciences.
- Suggested/preferred undergraduate majors: mathematics, statistics, computer sciences, natural sciences, biological sciences, engineering, medical sciences, environmental sciences, management information systems.
- Prerequisite undergraduate courses: linear algebra, calculus, basic computer skills (e.g. operating system, internet, word processing, spread sheet).
- Work experience: Prior work experience is preferred, but not required.
- Minimum undergrad GPA: 3.0 on a 4 point scale in courses relevant to the field of study. Or
- Verbal GRE Score: minimum 450
- Quantitative GRE Score: minimum 550.
- Other criteria: Academic background, goal statement, student's academic interest, references and availability of faculty and facility resources are also considered as part of the entrance evaluation.

Curriculum or Plan of Study

College Core Courses (15 credits)

PHC 6000	Epidemiology (3)
PHC 6057	Biostatistical Inference I (3)
PHC 6102	Principles of Health Policy and Management (3)

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PHC 6357	Environmental and Occupational Health (3)
PHC 6410	Social and Behavioral Sciences Applied to Health (3)

Required Concentration Courses (15)

PHC 6053	Categorical Data Analysis (3)
PHC 6051	Biostatistics II (3)
PHC 6700	Research Methods in Epidemiology (3)
PHC 6055	Survival Analysis (3)
PHC 6017	Design and Conduct of Clinical Trials (3)

Electives (6) Examples of common elective options

PHC 6054	Design and Analysis of Experiments for Health Researchers (3)
PHC 6056	Survey Sampling Methods in Health Sciences (3)
STA 6746	Multivariate Analysis (3)
ISM 6217	Database Administration (3)
PHC 6060	Biostatistical Case Studies and Consulting I (3)
PHC 6701	Computer Applications for Public Health Researchers (3)

Culminating Experiences

- PHC 6945 Supervised Field Experience (3 credits minimum)
- PHC 6977 Special Project (3)
- Core Comprehensive Exam (no credit)

TOTAL CREDITS: 39 plus field experience

College Admission Requirements

<http://publichealth.usf.edu/degreereqs.html>

Dual Degree(s): None

Biostatistics MSPH

Description: The goal of the MSPH Program in Biostatistics is for students to acquire a thorough understanding of biostatistical methods, and to apply them to research focusing on public health related problems. The program prepares students to fulfill a primary or shared responsibility for the handling of quantitative and computational aspects of a research project, ranging from study design, data collection and management, developing analysis plans, and conducting analyses and reporting findings. The program provides students with knowledge in statistical theory and computational methods as applied to public health research. The intended audience of the program includes individuals with a strong quantitative background and interests in pursuing a research career as a biostatistician. Through advanced coursework and the thesis, students develop mastery in at one or more statistical methods related to their thesis research area.

In addition to the overall Master of Science in Public Health degree objectives, located at <http://publichealth.usf.edu/msph.html>, *Biostatistics* graduates will be able to:

- Apply biostatistical methods to the design of experimental and observational studies with respect to sample selection, randomization, and power;
- Apply common probability distributions to public health outcomes;
- Use statistical techniques including descriptive statistics, data exploration, estimation, hypothesis testing, and modeling;
- Demonstrate programming and data management skills and use common statistical software packages for data analysis;

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- Communicate effectively to public health practitioners in terms of formulating research problems and interpreting statistical results;
- Conduct independent research involving the application of biostatistical methods to a health research problem;
- Critique statistical and public health literature; and
- Demonstrate knowledge of ethical issues related to the use of biostatistics in health research.

Prerequisites

- Public health course prerequisites:
 - HSC 4554 Survey of Human Diseases
 - HSA 4011 Introduction to Public Health
 - Or an equivalent course is required for student who lack training in public health or biological sciences.
- Suggested/preferred undergraduate majors: mathematics, statistics, computer sciences, natural sciences, biological sciences, medical sciences, environmental sciences, management information systems.
- Prerequisite undergraduate courses: linear algebra, calculus, computer skills (e.g. operating system, internet, word processing, spread sheet)
- Work experience: Prior work experience is preferred, but not required.
- Minimum undergrad GPA: 3.0 on a 4-point scale in courses relevant to the field of study.
- Verbal GRE Score: minimum 450
- Quantitative GRE Score: minimum 600
- Other criteria: Academic background, goal statement, student's academic interests, references and availability of faculty and facility resources are also considered as part of the entrance evaluation.

Curriculum or Plan of Study

College Core Courses (9 credits)

PHC 6000	Epidemiology (3)
PHC 6057	Biostatistical Inference I (3)
	And one of the following
PHC 6102	Principles of Health Policy and Management (3)
PHC 6357	Environmental and Occupational Health (3)
PHC 6410	Social and Behavioral Sciences Applied to Health (3)

Required Concentration Courses (18)

PHC 6053	Categorical Data Analysis (3)
PHC 6055	Survival Analysis (3)
PHC 6700	Research Methods in Epidemiology (3)
PHC 6060	Biostatistical Case Studies and Consulting I (3)
PHC 6017	Design and Conduct of Clinical Trials (3)
PHC 6051	Biostatistics II (3)

Electives (9) Examples of common elective options

PHC 6054	Design and Analysis of Experiments for Health Researchers (3)
PHC 6056	Survey Sampling Methods in Health Sciences (3)
STA 6746	Multivariate Analysis (3)
ISM 6217	Database Administration (3)
ECO 6425	Econometrics II (3)
PHC 6061	Biostatistical Case Studies and Collaboration II (3)

Culminating Experiences

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- PHC 6971 Thesis (6)
- Core Comprehensive Exam (no credit)

TOTAL CREDITS: 42

College Admission Requirements

<http://publichealth.usf.edu/degreeeqs.html>

Dual Degree(s): None

Epidemiology and Biostatistics MPH (Combined Concentration)

Description: This dual concentration program is a professional degree, intended for individuals who wish to obtain a broad understanding of public health, with a strong background in analytical skills and methods. The knowledge and skills obtained through this program will enable graduates to seek positions that characterize the health status of communities, critically evaluate research on determinants of health-related events, formulate strategies to evaluate the impact of health related interventions and foster the application of epidemiologic and biostatistical methods for health promotion/disease prevention activities.

In addition to the overall **Master of Public Health** degree objectives, *Epidemiology and Biostatistics concentration* graduates will be able to:

- Describe the history and theory of epidemiology;
- Apply the methods of epidemiology to problems of health promotion, disease prevention and control;
- Apply and analyze the methods of biostatistics to problems of health promotion, disease prevention and control;
- Compare and contrast experimental and observational study designs in epidemiology;
- Recognize risk factors and the relationships to health outcomes in diverse populations;
- Demonstrate skills in review of the literature, data management, data analysis and interpretation of results;
- Apply knowledge of core areas and specialized public health techniques, practices, policies, and programs to improve the health and well being of all populations;
- Articulate ethical issues relating to epidemiologic research in a public health setting;
- And provide leadership in a specific health specialty that is ethical, population focused, culturally appropriate and uses innovative approaches to pressing public health problems.

Prerequisites

- Public health course prerequisites:
 - HSC 4554 Survey of Human Diseases
 - HSA 4011 Introduction to Public Health
 - Or an equivalent course is required for students who lack training in public health or biological sciences.
- Suggested/preferred undergraduate majors: mathematics, statistics, computer sciences, natural sciences, biological sciences, engineering, medical sciences, environmental sciences, management information systems.
- Prerequisite undergraduate courses: linear algebra, calculus, basic computer skills (e.g. operating system, internet, word processing, spread sheet).

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- Work experience: Prior work experience is preferred, but not required.
- Minimum undergrad GPA: 3.0 on a 4 point scale in courses relevant to the field of study. Or
- Verbal GRE Score: minimum 450
- Quantitative GRE Score: minimum 550
- Other criteria: Academic background, goal statement, student's academic interest, references and availability of faculty and facility resources are also considered as part of the entrance evaluation.

Note: All courses are 3 credit hours each unless otherwise indicated.

I. Required College Core Courses **15 hours**

PHC 6000 – Epidemiology
PHC 6057 – Biostatistical Inference (Biostatistics I may be needed as prerequisite)
PHC 6102 – Principles of Health Policy and Management
PHC 6410 – Social and Behavioral Science Applied to Health
PHC 6357 – Environmental and Occupational Health

II. Required Concentration Area Courses **18 hours**

PHC 6051 – Biostatistics II
PHC 6700 – Research Methods in Epidemiology
PHC 6701 – Computer Applications for Health Researchers
PHC 6053 – Categorical Data Analysis
HSC 6055 – Survival Analysis
PHC 6017 – Design and Conduct of Clinical Trials

III. Emphasis area support courses **9 hours**

Students will select courses, with advisor approval, from the following categories:

1 Additional course in Infectious Disease Epidemiology
1 Additional course in Chronic Disease Epidemiology
1 Additional course in Biostatistics

IV. Additional requirements **4 hours (minimum)**

PHC 6977 – Special Project 3 hours
• Must conduct data analysis project with both Epidemiology and Biostatistics features
PHC 6945 – Supervised Field Experience 1-12 hours

V. Comprehensive Exams **(no credit)**

- Core Area Exam

TOTAL MINIMUM CREDIT HOURS: 46 (+ Supervised Field Experience)

Epidemiology and Global Health MPH (Combined Concentration)

Description: This program will prepare students with a strong background in analytical skills and methods, for achieving a professional position in the field of international public health, such as international, bilateral, governmental and non-governmental agencies. This dual program in Epidemiology

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and Global Health prepares students to critically evaluate research on determinants of health-related events, formulate strategies to evaluate the impact of health related interventions and foster the application of epidemiological and biostatistical methods for health promotion/disease prevention activities. The curriculum focuses on assessment and intervention strategies useful in resolving health problems of primarily undeveloped countries.

In addition to the overall **Master of Public Health** degree objectives, Epidemiology and Global Health concentration graduates will be able to:

- Describe the history and theory of epidemiology;
- Apply the methods of epidemiology to problems of health promotion, disease prevention and control;
- Apply and analyze the methods of biostatistics to problems of health promotion, disease prevention and control;
- Compare and contrast experimental and observational study design in epidemiology;
- Recognize risk factors and the relationships to health outcomes in diverse populations;
- Demonstrate skills in review of the literature, data management, data analysis and interpretation of results;
- Apply knowledge of core areas and specialized public health techniques, practices, policies, and programs to improve the health and well being of all populations;
- Articulate ethical issues relating to epidemiologic research in a public health setting; and provide leadership in a specific health specialty that is ethical, population focused, culturally appropriate and uses innovative approaches to pressing public health problems;
- Describe the sociocultural, political and economic determinants of health and health status at the global level;
- Assess the burden of disease on health, service utilization and finance, and the importance of prevention;
- Analyze the prevailing international health systems in industrial and developing countries, comparing coverage, utilization, equity, policy, organization, delivery and financing of those systems and define the rationale for health systems' reform;
- Appraise the role of cultural, social and economic factors that contribute to the incidence of infectious disease;
- Assess public health conditions and problems related to infectious disease control and surveillance in developing countries;
- Use ethical and culturally appropriate technology/interventions when addressing public health problems and prevention at the global level;
- Propose methodologies for the evaluation of public health programs and interventions.

Prerequisites:

- Public Health course prerequisites:
 - HSC 4554 Survey of Human Disease
 - HAS 4011 Introduction of Public Health
 - Or an equivalent course approved by advisor
- Students must be accepted by both departments and meet departmental minimum GRE and GPA requirements for the MPH
- Suggested/preferred undergraduate majors: life science, math
- Preferred undergraduate courses: algebra, calculus.
- Work experience: Prior work experience is preferred, but not required.
- Minimum undergrad GPA: 3.0 on a 4 point scale in courses relevant to the field of study. Or
- Verbal GRE Score: minimum 450
- Quantitative GRE Score: minimum 550

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- Other criteria: Intermediate computer skills, goal statement, 2 letters of recommendation and resume. Availability of faculty and facility resources are also considered as part of the entrance evaluation.

Note: Students will have 2 faculty advisors: 1 from Epidemiology and 1 from Global Health

All courses are 3 credit hours unless otherwise noted

I. Required College Core Courses **15 hours**

PHC 6000 – Epidemiology
PHC 6050 – Biostatistics
PHC 6102 – Principles of Health Policy and Management
PHC 6410 – Social and Behavioral Science Applied to Health
PHC 6357 – Environmental and Occupational Health

II. Required Concentration Area Courses **21 hours**

Global Health
PHC 6115 – Global Health Principles & Contemporary Issues
PHC 6112 – Global Health Assessment Strategies (4 credit hours)
PHC 6106 – Global Health Program Development and Administration
PHC 6442 – Global Health Applications in the Field (2 credit hours)

Epidemiology
PHC 6051 – Biostatistics II
PHC 6700 – Research Methods in Epidemiology
PHC 6701 – Computer Applications

III. Emphasis Area Support Courses **15 hours**

PHC 6002 – Infectious Disease Epidemiology **or** 6934 Intermediate Infectious Disease Epidemiology
PHC 6934 – Observational Study Design
PHC 6053 – Categorical Data Analysis
PHC 6006 – Epidemiology of Diseases of Major Public Health Importance **or**
One Disease specific Epidemiology course such as:
PHC 6076 – Cardiovascular Disease Epidemiology,
PHC 6075 – Cancer Epidemiology, etc.

AND one of the following courses: PHC6512 – Vectors of Human Disease,
PHC 6511 – Public Health Immunology
PHC 6513 – Public Health Parasitology

IV. Additional Requirements **6-9 hours**

PHC 6977 – Special Project* 3 hours
PHC 6945 – Supervised Field Experience** 3-6 hours (depending on past international experience)

*Must be epidemiologic in content and have a global health perspective with 2 readers: 1 from Epidemiology and 1 from Global Health

**Must be international and involve epidemiologic content

Total minimum credit hours: 54 plus Field Experience

Dual Degrees

Dual degrees combine a Public Health degree with a degree from another area of study. Following are the dual degree options available for the Department of Epidemiology and Biostatistics and the offerings vary by concentration. Each of these is linked to a detailed description in this catalog.

Anthropology
Biochemistry / Molecular Biology
Physical Therapy (DPT)

Graduate Certificates

Graduate Certificate Programs allow a student to take a concentration in a specific topical area without being admitted to a degree program. Certificates range from 12 to 18 credits to complete, depending on the one selected. By comparison, the MPH requires a minimum of 40 credits. This department offers one Graduate Certificate described fully later in this catalog.

Epidemiology Certificate
Biostatistics Certificate

Health Policy & Management

Description

The Department of Health Policy and Management prepares managers, analysts, and researchers for leadership positions in health-care and related organizations in the public and private sector. The scope encompasses planning, organization, administration, management, evaluation, and policy analysis of health systems, agencies and programs, in traditional and alternative health care settings in the state of Florida, elsewhere in the United States, and abroad. The commitment to faculty excellence in research and creative achievements is directed toward making important contributions to improve understanding of advantageous public policies, the management of health agencies and organizations, and the health of populations.

Programs Offered Table

Department of Health Policy & Management		
Concentrations	Degrees	Notes
Health Policy & Management	MSPH PhD	Department wide to permit focal research area
Health Administration	MHA	
Health Care Organization & Management	MPH	
Public Health Administration	MPH	On-line degree concentration
Health Policies and Programs	MPH	
Available Certificates		Available Dual Degrees
<ul style="list-style-type: none"> • <u>Health Management and Leadership</u> • <u>Public Health Policy and Programs</u> (online format) 		<ul style="list-style-type: none"> • <u>Anthropology (MA or PhD)</u> • <u>Medicine (MD)</u> • <u>Physical Therapy (DPT)</u>

Concentrations

Health Policy & Management Doctor of Philosophy (PhD)

Description: The PhD Program in the Department of Health Policy and Management (HPM) prepares students for research careers in both academic and non-academic organizations. Program of study is tailored to the interests and backgrounds of individual students. All students who complete the HPM doctoral degree program must demonstrate proficiency in defined substantive areas and must develop stated competencies.

Objectives

At the conclusion of the doctoral program, graduates will be prepared to:

1. Enter research-oriented careers in both academic and non-academic organizations;
2. Demonstrate proficiency in public health and health policy and management principles, research methodology, and a recognized specialty area in health policy or health care management;
3. Demonstrate a working knowledge of the principal statistical approaches used in contemporary health services research;
4. Analyze large-scale data sets;

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5. Apply specialized knowledge in one or more of the substantive areas of health policy and management such as health services/outcomes research, concepts and techniques of health care management, analysis of federal/state health policies, and/or medical care organization and financing;
6. Demonstrate skills in the core disciplines of health policy and management, particularly economics and decision sciences, health policy, and management;
7. Contribute to health policy and management inquiry and practice;
8. Apply ethical standards in the content of research and work as an effective research team member;
9. Write scholarly publications and grant applications, and make oral presentations;
10. Conduct scholarly research.

Areas of Demonstrated Proficiency

At the time of the Qualifying Examination, students are expected to demonstrate proficiency in three substantive areas: 1) core disciplines of public health, 2) research methodology, and 3) a recognized specialty area in health policy or health management.

1. **Core Public Health Disciplines.** Students are expected to master the basic disciplines of public health, in addition to mastering more advanced work in the fields of epidemiology and biostatistics.
2. **Research Methodology.** Students are expected to develop a working knowledge of the principal statistical approaches used in contemporary health services research.
3. **HPM Specialty.** In view of the broad interdisciplinary nature of the HPM field, students are given considerable latitude in delineating the third area of study. In general terms, students are expected to develop specialized knowledge in one or more substantive area of interest to HPM professionals. Examples include health outcomes research, health care management, health policy analysis, medical care organization and financing. All students are expected to augment their specialty work by acquiring suitable skills in the core disciplinary fields of HPM, particularly economics and decision sciences, health politics and law, and management and organizational behavior. Students are expected to identify a problem area or topic of sufficient individual interest to lead to the design of a proposal for the dissertation research phase of the PhD program.

Admissions Requirements for HPM Doctoral Students

Student Qualifications: The HPM faculty and Admissions Committee are committed to identifying and recruiting qualified applicants for the PhD program, particularly minority candidates and those who will contribute to the diversity of the student body. Please also see Admission Requirements for Doctoral Degree Programs at <http://publichealth.usf.edu/degereqs.html>.

To be considered for admission to the PhD program, applicants must have:

A master's degree from an accredited university (exceptional applicants with a bachelor's degree may be considered for admission); GRE or GMAT score which was taken within five years preceding the application, and TOEFL score if international student applicant.

The minimum standards for graduate GPA or GRE, GMAT and TOEFL scores are summarized below.

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MINIMUM STANDARDS

Graduate GPA	Verbal GRE	Quantitative GRE	GMAT
3.0	480	620	600

Application and Review Process: Doctoral program applicants should submit an application and all required information to the USF Graduate Admissions Office. The completed application package will be forwarded to the College of Public Health Academic Affairs Office, and subsequently to the Chair of the HPM Admissions Committee.

Only qualified applicants are considered for admission. Applicants are regarded as qualified if they achieve the graduate GPA and test score standards. In addition, exceptional applicants, with only a bachelor's degree and an undergraduate GPA exceeding 3.0, may be considered.

The HPM Admissions Committee evaluates doctoral program applicants regarding their academic performance, research interests and potential, professional experience, recommendations, and personal statements. The Admissions Committee identifies those candidates who have demonstrated excellence in past academic and professional pursuits relevant to public health, health policy, or health services management, and subsequently assesses faculty willingness to serve as sponsors.

Faculty Sponsor: For admission, qualified applicants must have a faculty sponsor. Doctoral student applications are circulated to faculty who can serve as faculty sponsors. Faculty sponsors must be eligible to chair a Doctoral Supervisory Committee, and must document their willingness to work with an applicant.

In making decisions to sponsor students, faculty members assess applicants regarding their academic performance, professional experience, research interests and potential, recommendations, and personal statements. On-campus or telephone interviews are required. Faculty members only sponsor applicants who 1) demonstrate excellence in academic and professional performance, 2) articulate distinct research goals and interests that are consistent with the faculty member's work, and 3) provide evidence of maturity and self-direction based on accomplishments, interview findings and recommendations. Applicants are not admitted if they are not qualified or do not have a faculty sponsor.

Admission Decision: Once an eligible faculty member agrees to sponsor an applicant, the Admissions Committee recommends a decision to the department chair. The department chair makes a recommendation regarding admission or denial. This recommendation is sent to the College of Public Health academic coordinator, and subsequently to the Graduate Admissions Office.

Requirements for HPM Doctoral Students

The purpose of this document is to provide information on the requirements of the Department of Health Policy and Management for the degree of Doctor of Philosophy. A student accepted for doctoral studies in the Department of Health Policy and Management should also review the University Guidelines at the Graduate Studies website at <http://publichealth.usf.edu/degreereqs.html> and [College Admission / Application website guidelines \(http://publichealth.usf.edu/degreereqs.html\)](http://publichealth.usf.edu/degreereqs.html) for general guidance and for additional details regarding requirements. Additionally, the Department website at <http://publichealth.usf.edu/hpm/student.html> has specific additional information that may be useful.

The requirements for doctoral students include the following sections. Each section is hyperlinked to an explanation below.

1. [Letter of Understanding](#)
2. [Advisor and Major Professor](#)

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3. [Doctoral Committee](#)
4. [Enrollment Requirements](#)
5. [Plan of Study](#)
6. [Transfer Credit](#)
7. [Teaching](#)
8. [Comprehensive Qualifying Examination](#)
9. [Dissertation](#)
10. [Final Oral Examination](#)
11. [Restrictions on Release of Publications](#)
12. [Responsibilities of Students](#)
13. [Forms and Guidance](#)

1. Letter of Understanding

Upon admission to the doctoral program, each student is required to sign a letter of understanding regarding the stages of the doctoral program. The letter will be prepared and provided to the student by the chairperson of the Department. The letter should indicate that the student has received and read a copy of these guidelines and has read the relevant sections of the current Graduate Catalog at <http://www.grad.usf.edu/> and agrees to abide by them. In addition the letter should show that the student is familiar with the following specific requirements:

- Clear understanding of required doctoral competencies;
- Successful completion of a written plan of study as approved by the doctoral committee;
- Successful performance on the written comprehensive qualifying examination for doctoral candidacy;
- Preparation and formal defense of a dissertation proposal;
- Conduct of dissertation research activities and preparation of the dissertation;
- Successful completion of teaching proficiency as defined by the department; and,
- Successful defense of the dissertation.

2. Advisor and Major Professor

As a condition of admission, a student must have a faculty member in the Department agree to serve as the student's sponsor. Upon the student's admission to doctoral studies, the department chairperson will appoint the faculty sponsor as the major professor. The major professor serves as a mentor and facilitates the student's doctoral studies by:

- Serving as the student's advisor;
- Meeting with the student to develop a plan of study for Doctoral Committee approval by the end of the second semester;
- Chairing the Doctoral Committee;
- Keeping the Doctoral Committee informed of the student's progress;
- Meeting with student on a regular basis about academic and research progress;
- Coordinating the development, administration, and grading of the comprehensive qualifying examination;
- Recommending additional members when the dissertation committee is formed;
- Guiding the student in the development and implementation of a quality dissertation (including proposal, implementation of the research, and the written document); and,
- Recommending an appropriate outside chair to preside over the dissertation defense examination.

3. Doctoral Committee

By the end of the student's second semester, the major professor, in consultation with the student, shall form a Doctoral Committee and the Department will complete and forward the appropriate forms. Find the forms at <http://publichealth.usf.edu/forms.html>. The Doctoral Committee is also known as the Doctoral

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Supervisory Committee. The Committee will meet with the student and approve the student's plan of study. The plan of study shall include all required departmental courses, prerequisites, and additional courses as prescribed by the Committee (including courses required outside of the Department) that are required to sit for the comprehensive qualifying examination and to conduct dissertation research. It will also specify required teaching activities. The plan should include a proposed time schedule to complete each course, and copies of the plan shall be given to each Committee member and to the Office of Academic Affairs. The major professor has the privilege of calling additional meetings, as necessary, to discuss the student's progress, research ideas, plan for the qualifying examination, or a significant change in the plan of study. It is the student's responsibility to arrange these meetings.

The Doctoral Committee is responsible for the following:

- Meeting with the student to discuss the plan of study, research proposal, comprehensive qualifying examination, or academic progress;
- Facilitating opportunities for research and scholarly growth;
- Approving and monitoring a written plan of study that prepares the student to sit for the comprehensive qualifying examination and to conduct dissertation research;
- Developing and grading the written comprehensive qualifying examination; and
- Guiding the student throughout dissertation preparation, including:
 - approving the written dissertation proposal through a formal oral defense process;
 - providing guidance during the writing of the dissertation; and
 - Conducting the dissertation defense examination and approving the dissertation.

Occasionally, it becomes necessary or desirable to change a student's major professor or Doctoral Committee members. This may occur when research interests are more closely matched with another faculty member, the student and faculty member mutually agree that another faculty member is more appropriate, or a faculty member is leaving the university. This action requires submission of another change of committee form which can be found at <http://publichealth.usf.edu/forms.html> .

4. Enrollment Requirements

In the first year of study, the student must enroll for a minimum of 9 hours each in two of the first three semesters (Fall, Spring, Summer) at a University of South Florida campus. The department abides by the [Enrollment](#) Requirements (including the Leave of Absence provisions) in the [Graduate Catalog](#)

5. Plan of Study

The student's plan of study will include the following:

Prerequisites: A minimum of PHC 6050 Biostatistics I, PHC 6000 Epidemiology, and PHC 6102 Principles of Health Policy and Management are required to be taken by all students who do not have a master degree in public health, (unless an equivalent course has been taken). The Doctoral Committee or the Department may require other prerequisites. These courses are not included in the minimum number of hours needed to complete the PhD and are expected to be completed early in the course of study.

Required Course Work: The courses and number of credit hours required are defined by the Department and the Doctoral Committee and may include course work from other departments or college. There must be a minimum of 13 credits at the 7000 level. A **minimum** of 90 credits beyond the bachelor's degree is required. The required coursework includes:

Statistics and Research Methods PHC 6051 Biostatistics II (3) QMB 6375 Applied Linear Statistical Models (3)* QMB 7565 Introduction to Research Methods (3)* QMB 7566 Applied Multivariate Statistical Methods (3)* PHC 7935 Seminar in Health Care Outcome Measurement (3)	18
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A minimum of 3 hours in advanced Biostatistics or Epidemiology courses (3) *Or equivalent course	
PHC 6151 Health Policy and Politics (3) PHC 6180 Health Services Management (3) PHC 6191 Quantitative Analysis in Health Care Management (3) PHC 6430 Health Economics I (3) PHC 6433 Health Economics II (3)	15
Specialty area courses, including courses necessary to complete dissertation research. (The maximum accepted from a previous master's degree cannot be more than 35).	32-44
Dissertation	18
Minimum Credits: (1) Additional coursework beyond 90 credits may be required of the student as specified in the plan of study (2) A minimum of 13 credits at the 7000 level is required.	90

6. Transfer Credit

It is possible to count most of the academic credits earned in an equivalent master's degree program in health policy and management (within the previous five years) toward the PhD. During the PhD program, it is possible to complete and transfer up to 8 semester hours (or 3 courses) from another regionally accredited University. The courses to be accepted for transfer credit will be determined by the student's Doctoral Committee.

7. Teaching

All doctoral students will demonstrate or document proficiency in teaching academic courses at the college or university level. The Doctoral Committee will determine the required teaching activities or whether previous teaching experience is sufficient to satisfy this requirement.

8. Comprehensive Qualifying Examination

When all required coursework is satisfactorily completed (and prerequisites), the student must pass the comprehensive qualifying examination covering the subject matter in the major and related fields. If all or part of the examination is failed, the student has one opportunity to retake the examination. If the student fails any part of the second examination, the student will be dismissed from the program.

The comprehensive qualifying examination consists of two parts: a written examination and an oral examination. The written portion, at the minimum, must include the following three parts:

- the field of health policy and management;
- the student's cognate discipline or disciplines supporting the student's specialization area and public health; and,
- research and analytic methods and their applications relevant to the health policy and management area.

Other sections or areas may also be included in the written examination at the discretion of the doctoral committee. The written examination will occur over two consecutive days. The student will be required to pass satisfactorily each section of the written examination before being allowed to take the oral portion. A passing score is 70%. The results of the written portion of the comprehensive qualifying examination must be reported to the student, the members of the committee, and the department chair within three weeks of the date of the examination. The oral portion of the examination will be administered by the student's doctoral committee and will be no more than two hours duration. The oral examination is an extension of

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and based on the written examination. Passing the oral portion of the examination requires approval by a majority of the Committee.

Successful completion of the examination requires passing grades on both the written and oral portions. No portion or section of the examination may be re-taken more than once, and the Doctoral Committee will determine the portions or sections to be re-taken.

After successful completion of the qualifying examination, the completed and approved the appropriate form will be forwarded to the Dean of Graduate Studies. (See forms at <http://publichealth.usf.edu/forms.html>) Upon approval of the form by Graduate Studies, the student is admitted to candidacy and may register for dissertation credits.

9. Dissertation

All students must follow the University's Thesis and Dissertation guidelines at http://www.grad.usf.edu/thesis_dissertation.asp. Generally, the doctoral committee will continue to serve as the Dissertation Committee, although this is not necessary. If not, a new form must be completed and approved (obtain forms at <http://publichealth.usf.edu/forms.html>). The Dissertation Committee will formally approve the student's written research proposal through an oral presentation given by the student, supervise the research, read and approve the dissertation for defense, and conduct the dissertation defense examination. The Committee will include at least three approved faculty from the department and one faculty from outside of the department.

10. Final Oral Examination

After the Dissertation Committee has determined that the dissertation is complete and suitable for presentation, the Committee will request the scheduling and announcement of the dissertation defense examination. All committee members must agree to the examination date and must be in attendance at the examination either in person or via speakerphone. This will be an oral examination of approximately two hours duration. The "chair" of the examination is expected to be a faculty member from outside of the Department.

Successful completion requires a 3/4 vote of the Dissertation Committee. Conditions may be placed upon a "pass" that require the candidate to revise the dissertation before final approval. The final oral examination may be re-taken once. In addition to information for the Dissertation Committee and on the Oral Defense, the Graduate Studies website contains information on forms (<http://publichealth.usf.edu/forms.html>) you will need regarding dissertation defense notices, and various completion forms.

11. Restrictions on Release of Publications

See University of South Florida Graduate Catalog section on Theses and Dissertations for details on release of publications at http://www.grad.usf.edu/thesis_dissertation.asp.

12. Responsibilities of Students

Students are expected to be familiar with the Graduate Catalog at <http://catalog.grad.usf.edu/>, departmental and college guidelines at <http://publichealth.usf.edu/academicaffairs/>. The student is responsible for assuring appropriate forms are submitted on time. Forms and directions are available on the following websites: <http://publichealth.usf.edu/forms.html>, and from <http://www.grad.usf.edu/forms/>.

13. Forms and Guidance

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The official forms are listed on the University Graduate Studies website at <http://www.grad.usf.edu/forms/>. Guidance as to what forms to use for what purpose can be found at the College Academic Affairs website at <http://publichealth.usf.edu/forms.html>.

Health Policy & Management MSPH

Description: The MSPH in Health Policy and Management is designed for individuals interested in developing research and analytic skills regarding the organization, financing and delivery of health services and issues of cost, quality and access. Graduates of the MSPH program will be prepared for positions in research and analysis in private and public sector organizations. Some applicants choose the MSPH degree program in anticipation of pursuing doctoral studies. Students develop knowledge and skills in health economics and research and quantitative methods applied to health policy and management issues.

In addition to the overall Master of Science in Public Health degree objectives, located at <http://publichealth.usf.edu/msph.html>, *Health Policy and Management* graduates will be able to:

- Assess the health care system in the United States, including the role of the public health disciplines;
- Employ analytic skill in health economics;
- Apply statistical and analytic methods regarding the organization, financing and delivery of health services;
- Demonstrate the ability to use research methodologies to address issues of cost, quality and access;
- Develop interpersonal and communication skills; and
- Apply critical thinking skills and knowledge to a research topic in health policy and management.

Prerequisites

- Public health course prerequisites: None.
- Prerequisite undergraduate courses: Micro-economics.
- Undergraduate majors are diverse and include: Life sciences, social sciences, business, or health professions.
- Work experience: Preferred, but not required.
- Minimum undergraduate GPA: 3.0 upper division **AND**,
- Verbal GRE Score: minimum 450
- Quantitative GRE Score: minimum 550
- In lieu of the GRE, only applicants to the Department of Health Policy and Management may submit a minimum GMAT score of 500 for the MHA, MPH, or MSPH.

Curriculum or Plan of Study

College Core Courses (9 credits)

PHC 6000	Epidemiology (3)
PHC 6050	Biostatistics I (3)
PHC 6102	Principles of Health Policy and Management (3)

Department Required Courses (6)

PHC 6430	Health Economics I (3)
PHC 6433	Health Economics II (3)

Research Methods Courses (12)

PHC 6051	Biostatistics II (3)
PHC 6700	Research Methods in Epidemiology (3)
PHC 6053	Categorical Data Analysis (3)

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PHC 6701 Computer Applications for Public Health Researchers (3)

Health Policy and Management Courses and Other Electives (12)

Common electives are:

PHC 6191 Quantitative Analysis in Health Care Management (3)

PHC 6196 Information Systems in Health Care Management (3)

Culminating Experiences

- PHC 6971 Thesis (6)
- Comprehensive Exam (no credit)

TOTAL CREDITS: 45

College Admission Requirements

<http://publichealth.usf.edu/degreereqs.html>

Dual Degree(s): None

Health Administration MHA

Description: The MHA program prepares students for leadership positions in public and private health organizations, such as health systems, medical group companies, health insurance companies, and health agencies. This is achieved by providing a relevant curriculum that requires students to develop professional and management decision-making skills and knowledge, with application to health services and encompassing a clinical and community perspective.

Students develop knowledge and skills in accounting, financial management, health economics, quantitative methods, policy analysis, information management, strategic management, and marketing. In addition, students develop knowledge and skills in leadership, human resources management, physician relations, and governance. Students develop a working knowledge of health insurance, health law and ethics, and quality and performance improvement, and develop a clinical and community perspective through public health core courses.

Master of Health Administration graduates will be able to:

- Assess the health care system in the United States, including the role of the public health disciplines;
- Demonstrate ability to use analytic and decision-making skills in accounting, finance, health economics, quantitative methods, and policy analysis;
- Apply management, leadership and performance improvement theories and principles to solve related health services problems;
- Analyze ethical issues and implications of cultural diversity in health policy and management;
- Demonstrate ability to utilize knowledge of information systems, health law, strategic planning, and marketing to advance health services delivery and outcomes;
- Develop interpersonal and communication skills; and
- Apply critical thinking skills and knowledge to health management cases and to a health care or related organization.

Prerequisites

- Public health course prerequisites: None
- Prerequisite undergraduate courses: Micro-economics.
- Undergraduate majors are diverse and include: Life sciences, social sciences, business, or health professions.
- Work experience: Preferred, but not required.

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- Minimum undergrad GPA: 3.0 upper-division (some exceptions made if GRE exceeds minimum requirements).
- Verbal GRE Score: minimum 500
- Quantitative GRE Score: minimum 550
- In lieu of the GRE, only applicants to the Department of Health Policy and Management may submit a minimum GMAT score of 500 for the MHA, MPH, or MSPH.

Curriculum or Plan of Study

Management and Policy (21)

PHC 6102	Principles of Health Policy and Management (3)
PHC 6180	Health Services Management (3)
PHC 6420	Health Care Law, Regulation and Ethics (3)
PHC 6148	Strategic Planning and Healthcare Marketing (3)
PHC 6181	Organizational Behavior in Health Services (3)
PHC 6196	Information Systems in Health Care Management (3)
PHC 6151	Health Policy and Politics (3)

Finance, Economics and Quantitative (16)

ACG 6025	Financial Accounting for Managers (2)
ACG 6075	Management Accounting and Control (2)
PHC 6161	Health Care Finance Applications (3)
PHC 6050	Biostatistics I (3)
PHC 6191	Quantitative Analysis in Health Care Management (3)
PHC 6430	Health Economics I (3)

Health Plans (3) Choose one

PHC 6114	Managed Care (3)
PHC 6435	Economics of Health Insurance (3)

Health and Communities (9)

PHC 6000	Epidemiology (3)
PHC 6357	Environmental and Occupational Health (3)
PHC 6410	Social and Behavioral Sciences Applied to Health (3)

Culminating Experiences

- PHC 6945 Supervised Field Experience
 - Students with little or no professional experience: 3 hours minimum
 - Students with substantial work experience can negotiate a reduced number of hours with their advisor (e.g., 1 or 2 hours) if the student has meaningful experience (involving decision-making) in a health care or related organization
- PHC 6977 Special Project (3)
- PHC 6183 Advanced Seminar in Health Care Management (2): Case-based capstone course that includes the final comprehensive exam.

TOTAL CREDITS: 54 plus field experience

College Admission Requirements

<http://publichealth.usf.edu/degreereqs.html>

Dual Degree(s): None

Health Care Organizations and Management MPH

Description: The Health Care Organizations and Management program is designed for individuals interested in the management of hospitals, group practices, health departments, and other provider organizations. The program focuses on the structure and management of health care organizations. Students develop knowledge and skills in management science, leadership, and decision-making. The curriculum does not require students to develop all health administration quantitative and analytic skill areas typically required of senior management positions.

In addition to the overall [Master of Public Health](http://publichealth.usf.edu/mph.html) degree objectives, located at <http://publichealth.usf.edu/mph.html>, *Health Care Organizations and Management* graduates will be able to:

- Assess the health care system in the United States, including the role of the public health disciplines;
- Employ analytic skill in health economics and health policy analysis;
- Apply management principles in private and public sector health organizations;
- Analyze ethical issues and implications of cultural diversity in health policy and management;
- Demonstrate ability to use decision making methodologies, such as information systems, financial management, and quantitative methods;
- Develop leadership, interpersonal and communication skills; and
- Apply critical thinking skills and knowledge to a management issue in a health care or related organization.

Prerequisites

- Public health course prerequisites: None
- Prerequisite undergraduate courses: Micro-economics, Accounting
- Undergraduate majors are diverse and include: Life sciences, social sciences, business, or health professions.
- Work experience: Preferred, but not required.
- Minimum undergrad GPA: 3.0 upper division (some exceptions made if GRE exceeds minimum requirements) **OR**
- Verbal GRE Score: minimum 450 **AND**
- Quantitative GRE Score: minimum 550
- In lieu of the GRE, only applicants to the Department of Health Policy and Management may submit a minimum GMAT score of 500 for the MHA, MPH, or MSPH.

Curriculum or Plan of Study

Public Health Core Courses (15 credits)

PHC 6000	Epidemiology (3)
PHC 6050	Biostatistics I (3)
PHC 6102	Principles of Health Policy and Management (3)
PHC 6357	Environmental and Occupational Health (3)
PHC 6410	Social and Behavioral Sciences Applied to Health (3)

Required Concentration Courses (9)

PHC 6180	Health Services Management (3)
PHC 6430	Health Economics I (3)
PHC 6151	Health Policy and Politics (3)

Concentration Courses (9) Students select three of the following:

PHC 6181	Organizational Behavior in Health Services (3)
PHC 6160	Health Care Financial Management (3)

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PHC 6191	Quantitative Analysis in Health Care Management (3)
PHC 6196	Information Systems in Health Care Management (3)

Electives (6) Examples of common elective options

PHC 6148	Strategic Planning and Healthcare Marketing (3)
PHC 6114	Managed Care (3)
PHC 6420	Health Care Law, Regulation and Ethics (3)

Culminating Experiences

- PHC 6945 Supervised Field Experience
 - Students with little or no professional experience: 3 hours minimum
 - Students with relevant professional experience: 1-3 hours minimum
 - Students with substantial work experience can negotiate a reduced number of hours with their advisor (e.g., 1 or 2 hours) if the student has meaningful experience (involving decision-making) in a health care or related organization
- PHC 6977 Special Project (3)
- Comprehensive Exam (no credit)

TOTAL CREDITS: 42 plus field experience

College Admission Requirements

<http://publichealth.usf.edu/degreereqs.html>

Dual Degree(s) <http://publichealth.usf.edu/dualdegrees.html>

MPH / MA	Health Care Organizations and Management / Anthropology
MPH / MD	Health Care Organizations and Management / Medicine
MPH / PhD	Health Care Organizations and Management / Anthropology

Public Health Administration MPH

Curriculum or Plan of Study

The concentration requires a minimum of 43 credit hours (attached). All listed courses are currently offered as on-line courses, and each is offered at least once annually.

The proposed curriculum requires the five public health core courses and five departmental courses. The core courses are offered annually in both traditional and on-line formats. The five departmental courses are offered annually in the on-line format. In addition, students select three courses that are relevant to their professional goals among on-line or traditional courses offered by the HPM Department or among courses offered by other departments. Thus, students may choose to complete the entire program on-line or can choose to complete eight of the 13 courses in a traditional format course.

The field experience hours vary based on a student's work experience. Students with limited or no public health experience are required to complete six credit hours of field placement. Those with a few years of experience are required to complete three hours. Those with leadership experience are required to complete one credit hour.

1. Required Public Health Core Courses

15 hours

PHC 6102 Principles of Health Policy and Management (3)
PHC 6000 Epidemiology (3)

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PHC 6050 Biostatistics I (3)
PHC 6357 Environmental & Occupational Health (3)
PHC 6410 Social and Behavioral Science Applied to Health (3)

2. Required Concentration Courses **15 hours**

PHC 6104 Management of Public Health Programs (3)
PHC 6146 Health Services Planning & Evaluation (3)
PHC 6147 Managing Quality in Health Care (3)
PHC 6160 Health Care Financial Management (3)
PHC 6321 Public Health Law and Ethics (3)

3. Additional Courses (choose three) **9 hours**

PHC 6110 International Health and Health Care Systems (3)
PHC 6111 Global Primary Care Strategies (3)
PHC 6195 Public Health Data, Information and Decision Making (3)
PHC 6411 Introduction to Social Marketing for Public Health (3)
Other approved elective(s)

4. Final Requirements **4-9 hours**

PHC 6945 Supervised Field Experience (1-6)
PHC 6977 Special Project (3)
Comprehensive Exam on Public Health Core Courses

TOTAL CREDITS: 42 plus field experience

Health Policies & Programs MPH

Description: The Health Policy and Programs MPH program is designed for individuals interested in development, analysis and evaluation of public policy for health services and public health programs. Students develop knowledge of theory and methods in policy analysis and program evaluation. Students are prepared to pursue policy analyst and program evaluation positions with federal, state or local agencies or with professional associations.

In addition to the overall [Master of Public Health](http://publichealth.usf.edu/mph.html) degree objectives, located at

<http://publichealth.usf.edu/mph.html>, *Health Policies and Programs* graduates will be able to:

- Assess the health care system in the United States, including the role of the public health disciplines;
- Employ analytic skill in health economics and health policy analysis;
- Demonstrate understanding of public policy analysis, program evaluation, and health law;
- Analyze ethical issues and implications of cultural diversity in health policy and management;
- Develop competencies in applying analytic and evaluation methods to health care issues;
- Develop leadership, interpersonal and communication skills; and
- Apply critical thinking skills and knowledge to a policy or program issue in public health or health services.

Prerequisites

- Public health course prerequisites: None
- Prerequisite undergraduate courses: Micro-economics, Accounting.

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- Undergraduate majors are diverse and include: Life sciences, social sciences, business, or health professions.
- Work experience: Preferred, but not required.
- Minimum undergraduate GPA: 3.0 upper division (some exceptions made if GRE exceeds minimum requirements) **OR**
- Verbal GRE Score: minimum 450 **AND**
- Quantitative GRE Score: minimum 550
- In lieu of the GRE, only applicants to the Department of Health Policy and Management may submit a minimum GMAT score of 500 for the MHA, MPH, or MSPH.

Curriculum or Plan of Study

College Core Courses (15 credits)

PHC 6000	Epidemiology (3)
PHC 6050	Biostatistics I (3)
PHC 6102	Principles of Health Policy and Management (3)
PHC 6357	Environmental and Occupational Health (3)
PHC 6410	Social and Behavioral Sciences Applied to Health (3)

Health Policy Core Courses (12)

PHC 6430	Health Economics I (3)
PHC 6151	Health Policy and Politics (3)
PHC 6760	Health Program Evaluation (3)
PHC 6193	Qualitative Methods in Community Health Research (or approved equivalent) (3)

Concentration Courses (6) Students select 2 of the following:

PHC 6104	Management of Public Health Programs (3)
PHC 6191	Quantitative Analysis in Health Care Management (3)
PHC 6421	Public Health Law and Ethics (3)
PHC 6433	Health Economics II (3)
PHC 6435	Economics of Health Insurance (3)

Electives (6) Examples of common elective options

PHC 6104	Management of Public Health Programs (3)
PHC 6148	Strategic Planning and Health Care Marketing (3)
PHC 6114	Managed Care (3)
PHC 6420	Health Care Law, Regulation and Ethics (3)

Culminating Experiences

- PHC 6945 Supervised Field Experience
 - Students with little or no professional experience: 3 hours minimum
 - Students with relevant professional experience: 1 hour minimum
 - Students with substantial work experience can negotiate a reduced number of hours with their advisor (e.g., 1 or 2 hours) if the student has meaningful experience (involving decision-making) in a health care or related organization.
- PHC 6977 Special Project (3)
- Comprehensive Exam (no credit)

TOTAL CREDITS: 42 plus field experience

College Admission Requirements

<http://publichealth.usf.edu/degreereqs.html>

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Dual Degree(s): None

Dual Degrees

Dual degrees combine a Public Health degree with a degree from another area of study. Following are the dual degree options available for the Department of Health Policy and Management and the offerings vary by concentration. Each of these is linked to a detailed description in this catalog.

Anthropology
Medicine
Physical Therapy (DPT)

Graduate Certificates

Graduate Certificate Programs allow a student to take a concentration in a specific topical area without being admitted to a degree program. Certificates range from 12 to 18 credits to complete, depending on the one selected. By comparison, the MPH requires a minimum of 40 credits. This department offers one Graduate Certificate described fully later in this catalog.

Health Management & Leadership
Public Health Policies & Programs

College Wide Programs

Public Health Practice MPH - Description

The Master of Public Health in Public Health Practice is a college-wide interdisciplinary program designed to prepare experienced health professionals to assume leadership roles as members of multidisciplinary teams so that they are able to effectively develop, implement, and evaluate programs that have an impact on the health of the public. The Public Health Practice MPH provides a broad spectrum of skills and knowledge important for effective health professionals working in public health settings. Students in the program will gain skills related to: public health practice; epidemiology; program analysis and inference from data; development of programs that take into account cultural, social, economic, ethical and legal factors; community-based health policy and program planning; and budgeting and management.

The MPH in Public Health Practice is offered in two formats: Online MPH via distance learning and Executive Weekend MPH program. The Online MPH via distance learning is primarily intended for off-campus students who are unable to come to campus for their education. The Executive Weekend MPH program is a unique and customized program to serve the needs of the busy health care practitioner. Classes in this format are offered one weekend a month for a total of 18 months. A brief description and link to detail on each of these programs are listed below. Each program has specialized staff to assist students.

Programs Offered Table

College Wide Programs		
Concentrations	Degrees	Notes
Public Health Practice	MPH	Offered: (1) Online (2) Executive Weekend Program
Available Certificates		
<ul style="list-style-type: none"> Public Health Generalist (web based) 		
Available Dual Degree		
<ul style="list-style-type: none"> Doctor of Physical Therapy (DPT) – available with Online program only 		

Online MPH via Distance Learning

The Online MPH via Distance Learning offers a convenient and affordable avenue for off-campus health care professionals to earn a Masters degree through distance learning. The courses in the Online MPH in Public Health Practice are delivered using web-based technologies. With the help of skilled instructional designers, faculty create course content that is delivered using multimedia technologies such as the Internet, DVDs, CDs, videotape, streaming media, web-based tutorials, and so on. Faculty within these courses utilize email, web conferencing, discussion forums and virtual chat features to enhance instruction. Students can complete almost all degree requirements for the online MPH with minimal on-campus requirements of no more than one calendar week. Courses are available in the online format in the Fall, Spring and Summer semesters. The time required to complete the online MPH program ranges

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from approximately 2.5 to 5 years, depending on time of entry into the program, course sequence and availability, as well as student circumstances and academic status. In addition, courses offered in this program may apply toward other MPH concentrations. Students must meet certain technology requirements and are required to pay a technology fee to participate in all online courses. For more information about the Online MPH program, go to <http://publichealth.usf.edu/php/onlinemph>. Contact the Public Health Practice Program office by email at distance@health.usf.edu or call (813)974-6606 (SunCom 574-6606) or toll free (888)USF-COPH (press 5).

Executive Weekend MPH

The Executive Weekend MPH program is a unique and customized program to serve the needs of the busy health care practitioner. Past and current students have represented many health care fields and specialties including physicians, nurses, dentists, pharmacists, occupational therapists and many more. This diversity provides students with the opportunity to meet and collaborate with colleagues from other specialties and geographic areas while enhancing the student's ability to work in multi-disciplinary teams. Students gain strategic vision while participating on diverse teams with other students averaging three to 33 years of work experience in public health. Courses in this format are intensive, in-depth and offered one weekend a month for a total of 18 months on the Tampa campus. Small class sizes guarantee students individual attention and rich face to face interactions with experienced peers and faculty. Due to the customized nature of this program, additional fees are assessed and enrollment is limited. For more information, visit: <http://publichealth.usf.edu/weekendmph/>

Concentration

Description

The Master of Public Health with a concentration in Public Health Practice is a college-wide interdisciplinary program designed to prepare experienced health professionals to assume leadership roles as members of multidisciplinary teams and to be able to effectively develop, implement and evaluate programs that have an impact on the health of the public.

The Public Health Practice MPH provides a broad spectrum of skills and knowledge important for effective health professionals working in public health settings.

Students in the program will gain skills related to:

- Public health practice
- Epidemiology
- Program analysis and inference from data
- Development of programs that take into account cultural, social, economic, ethical and legal factors
- Community-based health policy and program planning
- Budgeting and management

In addition to the overall [Master of Public Health](#) degree objectives, located at <http://publichealth.usf.edu/mph.html>, *Public Health Practice* graduates will be able to:

- Appraise the health status of populations by acquiring skills and knowledge about determinants of health and illness, factors contributing to health promotion and disease prevention, and factors influencing the use of health services;
- Define the basic outcome indicators and goals of public health practices and how they differ from private health care;
- Become familiar with the basic quantitative and qualitative research designs used in public health;

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- Determine appropriate use of data and statistical methods for problem identification and resolution, and program planning, implementation and evaluation;
- Interact sensitively, effectively, and professionally with persons from diverse cultural, socioeconomic, educational, and professional backgrounds, and with persons of all ages and lifestyle preferences;
- Articulate the fiscal, ethical, administrative, legal, social and political implications of preventive and health promotion services;
- Describe examples of community development, networks, public-private partnerships and other collaborative approaches to enhance service delivery;
- Define the elements for effective communication of important public health information, needs, policies and problems; and
- Manage programs with budgetary constraints, demonstrating understanding of legislative budget request cycles, contracts management and private health facilities budgets.

Prerequisites

- Public health course prerequisites: N/A
- Suggested/preferred undergraduate majors: Health sciences or health related professions.
- Prerequisite undergraduate courses: HSC 4554 Survey of Human Diseases or similar courses.
- Work experience: Three years of health-related experience required.
- Minimum undergraduate GPA: 3.0 OR
- Verbal GRE Score: minimum 450;
- Quantitative GRE Score: 550
- Other criteria: Minimum technology requirements include intermediate computer skills, two letters of recommendation, resume, and goal statement.

Curriculum or Plan of Study

Please see description of courses in this catalog under the main section: Course Listing

College Core Courses (15 credits)

PHC 6000	Epidemiology (3)
PHC 6050	Biostatistics I (3)
PHC 6102	Principles of Health Policy and Management (3)
PHC 6357	Environmental and Occupational Health (3)
PHC 6410	Social and Behavioral Sciences Applied to Health (3)

Public Health Practice Required Courses (12)

PHC 6934	Information Management in Public Health Settings (3)
PHC 6074	Epidemiology of Diseases of Major Public Health Importance (3)
PHC 6934	Ethics, Policy and Law in Public Health (3)
PHC 6930	Public Health Practice Seminar (3)

Supplemental Elective Courses* (9)

PHC 6104	Management of Public Health Programs (3)
PHC 6411	Introduction to Social Marketing for Public Health (3)
PHC 6934	Community Partnerships and Advocacy (3)

* May be substituted with other courses on an individual basis

Culminating Experiences

- PHC 6945 Supervised Field Experience (1)
Since students admitted to this concentration are required to have significant (three-years health related) experience, only one credit is required. The field experience is designed to expose the student to new or unfamiliar areas of public health.

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- PHC 6977 Special Project (3)
- Comprehensive Exam (no credit)

TOTAL CREDITS: 40

College Admission Requirements

<http://publichealth.usf.edu/degree reqs.html>

Dual Degrees

Dual degrees combine a Public Health degree with a degree from another area of study. Following are the dual degree options available for the College Wide Programs and the offerings vary by concentration. Each of these is linked to a detailed description in this catalog.

Doctor of Physical Therapy (DPT), available only with the Online MPH program

Graduate Certificates

Graduate Certificate Programs allow a student to take a concentration in a specific topical area without being admitted to a degree program. Certificates range from 12 to 18 credits to complete, depending on the one selected. By comparison, the MPH requires a minimum of 40 credits. This department offers one Graduate Certificate described fully later in this catalog.

Public Health Generalist