



School of Public Health

MS Degree

Student Handbook

2013-2014

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MS DEGREE PROGRAM INFORMATION

ACADEMIC CALENDAR

For the current academic calendar, please visit the UIC School of Public Health website: <http://publichealth.uic.edu/academics/academiccalendar/>.

CURRICULUM OVERVIEW

The Master of Science (MS) degree in Public Health Sciences is an academic degree awarded by the Graduate College of the University of Illinois and is subject to the requirements described in the UIC Graduate Catalog. (For this degree program, the School of Public Health acts as the Department of Public Health Sciences (DPHS) of the Graduate College.) MS degree students are prepared for continuing studies through the PhD program.

Programs of study leading to the MS degree are offered by each of the following four SPH Divisions:

1. [Community Health Sciences](#)
2. [Environmental and Occupational Health Sciences](#)
3. [Epidemiology and Biostatistics](#)
4. [Health Policy and Administration](#)

The MS program consists of four components (Minimum of 48 SH):

1. SPH School-wide Core Requirements – (7 SH)
2. Divisional Core Requirements and Electives – (variable based on chosen Division)
3. Culminating Experience –
 - IPHS 598 Research in Public Health – MS (16 SH; EPID 8 SH)
 - Research must be completed in three to four semesters of full-time work leading to a required thesis. The research may include theoretical, laboratory, field, or computer-based investigation. Research is undertaken with the assistance and approval of the student's academic

advisor and Thesis Examining Committee.

- Final Oral Examination - The final oral examination consists of a presentation of the student's research findings at an open meeting of students and faculty and a separate oral examination in the academic division by the student's Thesis Examining Committee.
4. **Biostatistics Students only:** All MS students in biostatistics take a comprehensive exam at the end of their second program year. This is in lieu of a master's thesis.
 5. Required Non-Credit Training
 - HIPAA Research Training
 - Investigator Training 101

ADMISSIONS

Please see the [Admissions](#) section of the SPH website for information.

Conditional Admission Policy Statement

Under special circumstances, an applicant may be recommended by a Division for admission on a conditional basis (e.g., completion of preparatory course work). The conditions under which a student is admitted to the School are to be stipulated in writing by the director of the Division recommending admission of the student. Conditionally admitted students must satisfy the conditions prior to graduation (or earlier if so specified by the Division).

Change in Division

If a student's interests change after admission or the student determines that professional goals would be better achieved in a division different from the one originally assigned, the student should submit a Request for Change of Degree form with consenting signatures of the current and the proposed Division Directors to the Office of Student Affairs.

DEGREE PROGRAM DEADLINE

In graduate programs requiring 41 to 64 semester hours of graduate work, candidates must complete all of the requirements within six calendar years after their initial registration in the Graduate College. Students pursuing more than one degree at the same time will be allowed an additional two years. Time spent on a leave of absence approved by the School and the Graduate College is not counted toward the degree time limit (see the Leave of Absence section of the [Academic Policies and Procedures Handbook](#)).

PROGRAM OF STUDY

For the MS program of study only two courses, BSTT 400 and EPID 403, are stipulated as school-wide requirements and students are encouraged to select courses from more than one division (most divisions have additional requirements for their MS students). Programs might consist, for example, of a blend of environmental and occupational health sciences with epidemiology and biostatistics. The School of Public Health courses might also be combined with studies outside the School. It is recommended that all students take BSTT 401, Biostatistics II, as part of their program of study in preparation for thesis research. A major requirement is that the program of study be designed and the entire 48 semester hours, including the electives, be directed toward a meaningful health-related goal. For full-time students, it is anticipated that at least four semesters, usually more depending upon the thesis topic, will be needed to complete the requirements for the MS degree. The student's thesis format must adhere to the Graduate College requirements.

Independent Study Hours (IPHS 596)

Students may use Independent Study (IPHS 596) to satisfy elective hours. Up to 5 semester hours (SH) of independent study may be credited for graduation for programs of study requiring 48 SH. For degree programs requiring greater than 48 SH, 1 SH of independent study may be credited toward graduation for each additional 5 SH of formal course work taken, to a maximum of 9 SH.

THE CULMINATING EXPERIENCE

THESIS RESEARCH (IPHS 598)

MS students must complete the following culminating experiences to comply with degree requirements:

MS students in Community Health Sciences, Environmental and Occupational Health Sciences, Epidemiology, and Health Policy and Administration must complete a master's thesis. Registration is required in IPHS 598 - Research in Public Health Sciences.

Epidemiology students are required to complete 8 SH of IPHS 598, with the remaining three divisions requiring 16 SH of IPHS 598.

Selection of Thesis Advisor and Thesis Examining Committee

Before undertaking research leading to the required thesis, the student, with the assistance and approval of his/her major advisor, must select a Thesis Advisor, who must be a member of the Graduate College Faculty. In conjunction with the Thesis Advisor, the student selects the Thesis Examining Committee, subject to the final approval of the major advisor, Division Director, SPH Director of Graduate Studies, and the Graduate College. This committee consists of at least three members, one of whom must be a tenured full member of the Graduate College faculty. One committee member may

be selected from outside the School of Public Health.

Thesis Proposal

The members of the Thesis Examining Committee will meet with the student to approve the thesis proposal, and to determine that the student is adequately prepared to undertake it. The thesis research may emphasize theoretical, laboratory, field, or computer-based investigations, but it should be feasible to complete in two to three semesters of full-time work. The members of the committee then provide guidance and assistance throughout the research experience of the student.

It is strongly advised that no more than one semester elapse following completion of course work before approval of the thesis proposal.

Preparation for Thesis Approval

Students should seek the guidance of their advisors and the Graduate College at an early stage of thesis preparation. *It is highly recommended that MS students at the point of beginning work on their thesis obtain a copy of the Graduate College brochure, "Instructions for Completing Graduate College Degree Requirements and Preparation of Theses."* This handbook is available [online](#). The handbook provides instruction for final thesis preparation and format approval. The student and advisor are responsible for the thesis content and style. Failure to follow guidelines within the Graduate College theses manual may delay a student's certification for graduation.

Final Oral Examination

When a student has completed the thesis research work and a final draft of the thesis, s/he should request the advisor to convene the Thesis Examining Committee to conduct the final exam and for review and approval of the thesis for content. When the student and major advisor agree that the student is prepared, the

advisor assembles the Thesis Examining Committee to conduct a final oral examination. The Thesis Examining Committee examines the student in a private session, indicating to the student whether any further work or revision of the thesis is required. The examination is then open to faculty and students for an oral presentation of the student's research. Finally, the Thesis Examining Committee reports to the Graduate College that the student has or has not passed his/her examination and thus has or has not satisfied all requirements for the MS degree. A candidate cannot be passed if more than one vote of "fail" is reported. The report to the Graduate College is made by the members of the Thesis Examining Committee and the advisor who sign and date the "Certificate of Approval" form (sent to the Thesis Examining Committee Chair by the Graduate College). When all Graduate College forms have been signed and dated by the Thesis Examining Committee and major advisor, they should be brought to the SPH Dean's Office for signature of the SPH Director of Graduate Studies, and then forwarded to the Graduate College to conclude the process. Upon approval of Dr. Lorraine Conroy, the Director of Graduate Studies for the Department of Public Health Sciences, the student is recommended to the Graduate College for award of the degree.

Note: SPH requires that one copy of the thesis be deposited with the SPH Office of the Dean to be placed in a repository in the student's Division.

MS BYPASS PROCEDURE TO PHD

With the approval of the student's advisor and Division Director, a student may choose to enter the PhD program and not undertake the MS thesis. A written letter of application must be made to justify this transfer. The Division admissions committee will review the justification letter and an accompanying transcript. Recommendations for approving the bypass will be made to the SPH Director of Graduate Studies (Dr. Lorraine Conroy) for approval and transmission to the Graduate

College for final approval. A list of courses to be transferred to the PhD program must accompany the justification letter and approval.

BSTT COMPREHENSIVE EXAM

MS Biostatistics students substitute a comprehensive examination for the thesis. The exam consists of two parts. The first part, a three-hour written exam, will cover basic methodological material from the required biostatistics and mathematics courses. The second part will be a seven day take-home exam in which the student is tested on the ability to perform data analysis and to describe and discuss the results. Please see Biostatistics MS Degree Program for more information.

THE MS CURRICULUM BY DIVISION

BIOSTATISTICS

The MS in Biostatistics program requires a minimum of 48 semester hours (SH) and is designed for completion in 2 years when enrolled full-time. This program includes the following course requirements:

I. School-Wide Core Requirements (3 SH)

Course	Title	Credits
EPID 403	Introduction to Epidemiology: Principles and Methods	3 SH
	MS Comprehensive Examination*	
Required Non-Credit		
Training: http://tigger.uic.edu/depts/ovcr/research/protocolreview/irb/education/index.shtml		
HIPAA Research Training		Non-credit
Investigator Training 101		Non-credit

II. Divisional Core Requirements (37 SH)

Course	Title	Credits
BSTT 506	Clinical Trials	3 SH
OR		
BSTT 507	Applied Sampling	3 SH
BSTT 523	Applied Biostatistics I	4 SH
BSTT 524	Biostatistics Tools	2 SH
BSTT 525	Applied Biostatistics II	4 SH
BSTT 535	Categorical Data Analysis	3 SH
BSTT 536	Survival Analysis	3 SH
BSTT 537	Longitudinal Data Analysis	4 SH
BSTT 538	Biostatistical Consulting	2 SH
BSTT 550	Biostatistical Investigations	4 SH
STAT 401	Introduction to Probability	4 SH
STAT 411	Statistical Theory	4 SH

III. Electives (minimum 8 SH)

All students must complete a minimum of 8 semester hours of electives. At least 3 semester hours should be one of the following:

- EOHS 400 Principles of Management in Public Health (3 SH)
- CHSC 400 Public Health Concepts and Practice (3 SH)
- CHSC 401 Behavioral Sciences in Public Health (3 SH)
- HPA 400 Principles of Management in Public Health (3 SH)

*MS Comprehensive Examination – All Biostatistics Students

All MS students in biostatistics take a comprehensive exam at the end of their second program year. This exam consists of two parts. The first part, a three-hour written exam, will cover basic methodological material from the required biostatistics and mathematics courses. The second part will be a seven day take-home exam in which the student is tested on the ability to perform data analysis and to describe and discuss the results.

Performance Standards

Students in Biostatistics are allowed only one grade of C in required courses. A student who receives two Cs in required courses will not be allowed to graduate from the program. A student may re-take a course one time and attempt to replace the C with a higher grade; however it should be noted that nearly all of the courses required for the MS in Biostatistics are offered only once a year and must be taken in a particular sequence, so re-taking a course is likely to delay graduation by a full year.

COMMUNITY HEALTH SCIENCES

The MS in Community Health Sciences program requires a minimum of 48 semester hours (SH). This program is designed for completion in 2 years when enrolled full-time and includes the following course requirements:

I. School-Wide Core Requirements (23 SH)

Course	Title	Credits
BSTT 400	Biostatistics I	4 SH
EPID 403	Introduction to Epidemiology: Principles and Methods	3 SH
IPHS 598	Research in the Public Health Sciences – MS	16 SH
Required Non-Credit		
Training: http://tigger.uic.edu/depts/ovcr/research/protocolreview/irb/education/index.shtml		
HIPAA Research Training		Non-credit
Investigator Training 101		Non-credit

II. Divisional Core Requirements (16 SH)

Course	Title	Credits
BSTT 401	Biostatistics II	4 SH
CHSC 400	Public Health Concepts and Practice	3 SH
CHSC 401	Behavioral Sciences in Public Health	3 SH
CHSC 446	Research Methods in Public Health	3 SH
CHSC 480	Health Education and Health Promotion	3 SH

III. Electives (minimum of 9 SH)

Students may customize their program of study by selecting from a broad range of course work to meet their career goals and interests. All students must complete a minimum of 9 semester hours of electives in 500-level courses in the major area of concentration.

ENVIRONMENTAL AND OCCUPATIONAL HEALTH SCIENCES

The MS in Environmental and Occupational Health Sciences program requires a minimum of 48 semester hours (SH). This program is designed for completion in 2 years when enrolled full-time and includes the following course requirements:

I. School-Wide Core Requirements (27 SH)

Course	Title	Credits
BSTT 400	Biostatistics I	4 SH
BSTT 401	Biostatistics II	4 SH
EPID 403	Introduction to Epidemiology: Principles and Methods	3 SH
IPHS 598	Research in the Public Health Sciences – MS*	16 SH
Required Non-Credit		
Training: http://tigger.uic.edu/depts/ovcr/research/protocolreview/irb/education/index.shtml		
HIPAA Research Training		Non-credit
Investigator Training 101		Non-credit

II. Divisional Core Requirements (14 SH)

All students are required to take a minimum of 14 semester hours in EOHS courses. Students must take EOHS 405 Environmental Calculations (2 SH) and choose at least one course from each of the following three areas:

1. Exposure Assessment and Measurement		
Course	Title	Credits
Select at least one of the following courses:		
EOHS 411	Water Quality Management	4 SH
EOHS 418	Analysis of Water and Wastewater Quality	2 SH
EOHS 421	Fundamentals of Industrial Hygiene	2 SH
EOHS 428	Industrial Hygiene Laboratory I	2 SH
EOHS 432	Air Quality Assessment and Management	4 SH
EOHS 440	Chemistry for Environmental Professionals	3 SH
EOHS 542	Water Chemistry	4 SH
EOHS 543	Environmental Organic Chemistry	4 SH
EOHS 557	Design and Analysis of Experiments [Note: Course is no longer offered, students should instead discuss alternatives with advisor to be used as an elective.]	4 SH
EOHS 564	Geographic Information System Application in Public Health	3 SH
EOHS 565	Datamining Applications in Public Health	3 SH

2. Health Assessment		
Course	Title	Credits
Select at least one of the following courses:		
EOHS 455	Environmental and Occupational Toxicology	3 SH
EOHS 551	Occupational Diseases	4 SH
EOHS 555	Advanced Toxicology	3 SH
EOHS 571	Injury Epidemiology	3 SH

3. Intervention Strategies		
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Course	Title	Credits
Select at least one of the following courses:		
EOHS 408	Biological, Chemical, Explosives, and Nuclear Weapons as Public Health Threats	3 SH
EOHS 411	Water Quality Management	4 SH
EOHS 461	Community Health and Consumer Protection	2 SH
EOHS 463	Safety Management Systems	2 SH
EOHS 556	Risk Assessment in Environmental and Occupational Health	3 SH
EOHS 572	Environmental Risk Assessment and Management	4 SH

III. Electives (minimum of 9 SH)

All students must complete a **minimum of 9 semester hours** of electives at the 500-level.

NOTE: Students are advised to carefully select courses with their advisor to assure adequate background for MS research and to assure adequate depth in a specific area of the wide field of EOHS.

IV. Optional Concentrations

In lieu of individually tailored course work, students may opt for one of the concentrations listed below.

A. ASAC ABET-Accredited Program in Industrial Hygiene (52 SH)

Students must complete the School-Wide Core Requirements listed below and as well as 29 semester credit hours of concentration courses as part of their divisional and elective choices. In addition, students must adhere to the divisional requirements as stipulated for their individual program of study.

School-Wide Core Requirements (23 SH)		
Course	Title	Credits
BSTT 400	Biostatistics I	4 SH
BSTT 401	Biostatistics II	4 SH
EPID 403	Introduction to Epidemiology: Principles and Methods	3 SH
IPHS 598	Research in the Public Health Sciences – MS*	12 SH
Required Non-Credit		
Training: http://tigger.uic.edu/depts/ovcr/research/protocolreview/irb/education/index.shtml		
HIPAA Research Training		Non-credit
Investigator Training 101		Non-credit

Industrial Hygiene Core (29 SH)		
Course	Title	Credits
EOHS 405	Environmental Calculations	2 SH
EOHS 421	Fundamentals of Industrial Hygiene	2 SH
EOHS 425	Evaluation and Control of Physical Agents	4 SH
EOHS 426	Evaluation and Control of Chemical and Biological Agents	4 SH
EOHS 427	Evaluation and Control of the Psychosocial Work Environment	2 SH
EOHS 428	Industrial Hygiene Laboratory I	2 SH
EOHS 432	Air Quality Assessment and Management	4 SH
EOHS 529	Applied Industrial Hygiene and Safety	2 SH

EOHS 551	Occupational Diseases	4 SH
EOHS 563	Occupational Safety and Health Management Systems	3 SH

Recommended Elective		
Course	Title	Credits
EOHS 455	Environmental and Occupational Toxicology	3 SH
EOHS 521	Aerosol Science and Technology	3 SH
EOHS/EPID 530	Current Topics in Occupational and Environmental Epidemiology	2 SH

Additional Requirements for Students Enrolled in (ASAC-ABET) - Accredited Industrial Hygiene Program

Trainees are required to:

1. Attend the weekly Illinois ERC Interdisciplinary Seminar (EOHS 495)
2. Attend Occupational Medicine Clinic (on a rotating basis ~ once every 3 weeks)
3. Present one Industrial Process Talk to the UIC Occupational Medicine Conference
4. Attend at least 4 Industrial Process Tours per academic year
5. Participate in an Illinois ERC Targeted Research Training Team

Prerequisite course work for entering the Industrial Hygiene program should be completed in the first year and includes a full year of general chemistry, at least one semester of organic chemistry, mathematics through differential and integral calculus, and a course in human physiology.

B. ABET – Accredited Hazardous Substances Academic Training Program (HSAT) (58 SH)

Students must complete the School-Wide Core Requirements listed below as well as 35 semester credit hours of concentration courses as part of their divisional and elective choices. In addition, students must adhere to the divisional requirements as stipulated for their individual program of study.

School-Wide Core Requirements (23 SH)		
Course	Title	Credits
BSTT 400	Biostatistics I	4 SH
BSTT 401	Biostatistics II	4 SH
EPID 403	Introduction to Epidemiology: Principles and Methods	3 SH
IPHS 598	Research in the Public Health Sciences – MS*	12 SH
Required Non-Credit		
Training: http://tigger.uic.edu/depts/ovcr/research/protocolreview/irb/education/index.shtml		
HIPAA Research Training		Non-credit
Investigator Training 101		Non-credit

Hazardous Substances Management Courses (29 SH)		
Course	Title	Credits
EOHS 405	Environmental Calculations	2 SH
EOHS 421	Fundamentals of Industrial Hygiene	2 SH
EOHS 425	Evaluation and Control of Physical Agents	4 SH
EOHS 426	Evaluation and Control of Chemical and Biological Agents	4 SH

EOHS 427	Evaluation and Control of the Psychosocial Work Environment	2 SH
EOHS 428	Industrial Hygiene Laboratory I	2 SH
EOHS 432	Air Quality Assessment and Management	4 SH
EOHS 529	Applied Industrial Hygiene and Safety	2 SH
EOHS 551	Occupational Diseases	4 SH
EOHS 563	Occupational Safety and Health Management Systems	3 SH

Selectives (6 SH)		
Course	Title	Credits
Select two of the following courses:		
EOHS/EPID 408	Biological, Chemical, Explosives, and Nuclear Weapons as Public Health Threats	3 SH
EOHS 440	Chemistry for Environmental Professionals	3 SH
EOHS 455	Environmental and Occupational Toxicology	3 SH
EOHS 556	Risk Assessment in Environmental Health	3 SH

Additional Requirements for Students Enrolled in (ABET) - Hazardous Substances Academic Training Program (HSAT)

Trainees are required to:

1. Attend the weekly Illinois ERC Interdisciplinary Seminar
2. Attend Occupational Medicine Clinic (on a rotating basis ~ once every 3 weeks)
3. Present one Industrial Process Talk to the UIC Occupational Medicine Conference
4. Attend at least 4 Industrial Process Tours per academic year
5. Participate in an Illinois ERC Targeted Research Training Team
6. Complete the 40-hour hazardous waste worker training course

Prerequisite course work for entering the Industrial Hygiene program should be completed in the first year and includes a full year of general chemistry, at least one semester of organic chemistry, mathematics through differential and integral calculus, and a course in human physiology.

C. Occupational Safety (54 – 55 SH)

Students must complete the School-Wide Core Requirements listed below as well as 31-32 semester credit hours of concentration courses as part of their divisional and elective choices. In addition, students must adhere to the divisional requirements as stipulated for their individual program of study.

School-Wide Core Requirements (23 SH)		
Course	Title	Credits
BSTT 400	Biostatistics I	4 SH
BSTT 401	Biostatistics II	4 SH
EPID 403	Introduction to Epidemiology: Principles and Methods	3 SH
IPHS 598	Research in the Public Health Sciences – MS*	12 SH
Required Non-Credit		
Training: http://tigger.uic.edu/depts/ovcr/research/protocolreview/irb/education/index.shtml		
HIPAA Research Training		Non-credit
Investigator Training 101		Non-credit

Occupational Safety Courses (28 SH)

Course	Title	Credits
EOHS 405	Environmental Calculations	2 SH
EOHS 421	Fundamentals of Industrial Hygiene	2 SH
EOHS 427	Evaluation and Control of the Psychosocial Work Environment	2 SH
EOHS 428	Industrial Hygiene Laboratory I	2 SH
IE/EOHS 441	Ergonomics and Human Factors	4 SH
IE 461/EOHS 460	Safety Engineering	4 SH
EOHS 529	Applied Industrial Hygiene and Safety	2 SH
EOHS 551	Occupational Diseases	4 SH
EOHS 563	Occupational Safety and Health Management Systems	3 SH
EOHS/EPID 571	Injury Epidemiology & Prevention	3 SH

Selectives (3-4 SH)		
Course	Title	Credits
Select one of the following courses:		
EOHS 425	Evaluation and Control of Physical Agents	4 SH
IE 446	Quality Control & Reliability	4 SH
TSM 421	Agricultural Safety & Injury Prevention	3 SH

Additional Requirements for Students Enrolled in the Occupational Safety Concentration

Trainees are required to:

1. Attend the weekly Illinois ERC Interdisciplinary Seminar
2. Attend Occupational Medicine Clinic (on a rotating basis ~ once every 3 weeks)
3. Present one Industrial Process Talk to the UIC Occupational Medicine Conference
4. Attend at least 4 Industrial Process Tours per academic year
5. Participate in an Illinois ERC Targeted Research Training Team
6. Complete the 54-hour First Responder training course

Prerequisite course work for entering the Occupational Safety program should be completed in the first year and includes a full year of general chemistry, at least one semester of organic chemistry, mathematics through differential and integral calculus, and a course in human physiology.

D. Occupational and Environmental Epidemiology Concentration in EOHS (53 SH)

Students must complete the School-Wide Core Requirements below as well as 38 semester credit hours of concentration courses as part of their divisional and elective choices. In addition, students must adhere to the divisional requirements as stipulated for their individual program of study.

School-Wide Core Requirements (15 SH)		
Course	Title	Credits
BSTT 400	Biostatistics I	4 SH
EPID 403	Introduction to Epidemiology: Principles and Methods	3 SH
IPHS 598	Research in the Public Health Sciences – MS*	8 SH
Required Non-Credit		
Training: http://tigger.uic.edu/depts/ovcr/research/protocolreview/irb/education/index.shtml		
HIPAA Research Training		Non-credit
Investigator Training 101		Non-credit

Occupational and Environmental Epidemiology Courses (38 SH)		
Course	Title	Credits
BSTT 401	Biostatistics II	4 SH
EPID 404	Intermediate Epidemiologic Methods	4 SH
EPID 406	Epidemiologic Computing	3 SH
EOHS 421	Fundamentals of Industrial Hygiene	2 SH
EPID/EOHS 530	Current Topics in Occupational & Environmental Epidemiology	2 SH
EPID/EOHS 535	Applied Methods in Occupational Epidemiology	2 SH
EPID/EOHS 536	Applied Methods in Environmental Epidemiology	2 SH
EOHS 551	Occupational Diseases	4 SH
EOHS 556	Risk Assessment in Environmental and Occupational Health	3 SH
EPID/EOHS 571	Injury Epidemiology and Prevention	3 SH
Select one of the following courses:		
EPID 410	Epidemiology of Infectious Diseases	2 SH
EPID 411	Epidemiology of Chronic Diseases	3 SH
Select 6 -7 SH of electives. Recommended electives are listed below:		
EOHS 405	Environmental Calculations	2 SH
EOHS 411	Water Quality Management	4 SH
EOHS 432	Air Quality Assessment and Management	4 SH
EOHS 455	Environmental and Occupational Toxicology	3 SH
EOHS/HPA 565	Datamining Applications in Public Health	3 SH

*Capstone Requirements

A capstone experience is required of all students in EOHS. For students in the MS program, the capstone experience is the MS research (IPHS 598) and written thesis.

EPIDEMIOLOGY

The MS in Epidemiology program requires a minimum of 50 semester hours (SH). This program is designed for completion in 2 years when enrolled full-time and includes the following course requirements:

I. School-Wide Core Requirements (15 SH)

Course	Title	Credits
BSTT 400	Biostatistics I	4 SH
EPID 403	Introduction to Epidemiology: Principles and Methods	3 SH
IPHS 598	Research in the Public Health Sciences – MS*	8 SH
Required Non-Credit		
Training: http://tigger.uic.edu/depts/ovcr/research/protocolreview/irb/education/index.shtml		
HIPAA Research Training		Non-credit
Investigator Training 101		Non-credit

II. Divisional Core Requirements (16-17 SH)

Course	Title	Credits
BSTT 401	Biostatistics II	4 SH
EPID 404	Intermediate Epidemiologic Methods	4 SH
EPID 406	Epidemiologic Computing	3 SH
EPID 591	Current Epidemiologic Literature	2 SH
EPID 595	Research Seminar	1 SH
Select one of the following courses:		
BSTT 505	Logistic Regression and Survival Analysis	2 SH
BSTT 506	Design of Clinical Trials	3 SH
BSTT 507	Sampling and Estimation Methods Applied to Public Health	3 SH

III. Electives (minimum of 19 SH)

Students may use their electives to pursue a course of study in the following optional concentration; or may customize their program of study by selecting from a broad range of course work to meet their career goals and interests. All students must complete a **minimum of 19 semester hours** of electives, 7 semester hours of which must be Epidemiology courses at the 500 level.

Other Electives (7 SH) - At least 3 SH should be one of the following:

- EOHS 400 Principles of Management in Public Health (3 SH)
- CHSC 400 Public Health Concepts and Practice (3 SH)
- CHSC 401 Behavioral Sciences in Public Health (3 SH)
- HPA 400 Principles of Management in Public Health (3 SH)

IV. Optional Concentrations

A. Occupational and Environmental Epidemiology Concentration in Epidemiology (53 SH)

Students must complete the School-Wide Core Requirements above as well as 38 semester credit hours from the following concentration courses as part of their divisional and elective choices. In addition, students must adhere to the divisional requirements as stipulated for their individual program of study.

Occupational and Environmental Epidemiology Courses (38 SH)		
Course	Title	Credits
BSTT 401	Biostatistics II	4 SH
BSTT 505	Logistic Regression and Survival Analysis	2 SH
EPID 404	Intermediate Epidemiologic Methods	4 SH
EPID 406	Epidemiologic Computing	3 SH
EOHS 421	Fundamentals of Industrial Hygiene	2 SH
EPID/EOHS 530	Current Topics in Occupational & Environmental Epidemiology	2 SH
EPID/EOHS 535	Applied Methods in Occupational Epidemiology	2 SH
EPID/EOHS 536	Applied Methods in Environmental Epidemiology	2 SH
EOHS 551	Occupational Diseases	4 SH
EOHS 556	Risk Assessment in Environmental and Occupational Health	3 SH
EPID/EOHS 571	Injury Epidemiology and Prevention	3 SH
Select one of the following courses:		
EPID 410	Epidemiology of Infectious Diseases	2 SH
EPID 411	Epidemiology of Chronic Diseases	3 SH
Select 4 -5 SH of electives. Recommended electives are listed below:		
EOHS 405	Environmental Calculations	2 SH
EOHS 411	Water Quality Management	4 SH
EOHS 432	Air Quality Assessment and Management	4 SH
EOHS 455	Environmental and Occupational Toxicology	3 SH
EOHS/HPA 565	Datamining Applications in Public Health	3 SH

B. Cancer Epidemiology (50 SH)

Students electing the Cancer Epidemiology concentration must complete the School-Wide Course Requirements as well as 35 semester credit hours of the following concentration courses in lieu of the Divisional Core Requirements:

Course	Title	Credits
BSTT 401	Biostatistics II	4 SH
BSTT 505	Survival Analysis and Logistic Regression	2 SH
EPID 404	Intermediate Epidemiologic Methods	4 SH
EPID 406	Epidemiologic Computing	3 SH
EPID 515	Survey of Cancer Epidemiology	3 SH
EPID 591	Current Epidemiologic Literature	2 SH
EPID 595	Research Seminar	1 SH
Select two of the following courses:		
CHSC 514/HN 594	Nutritional Epidemiology	3 SH
EPID 516	Advanced Cancer Epidemiology	2 SH
EPID 520	Genetics in Epidemiology	2 SH
EPID 554	Occupational and Environmental Epidemiology	2 SH
EPID 594	Advanced Special Topics in Epidemiology: Social Epidemiology	2 SH
EPID 594	Advanced Special Topics in Epidemiology: Surveillance Epidemiology	2 SH

Cancer Epidemiology Electives (11-12 SH)

Students must take a minimum of 11-12 SH of electives as necessary to reach minimum of 50 total program hours.

***MS Thesis Research Requirements**

The MS Thesis in Epidemiology at UIC SPH is intended to prepare the student to conduct epidemiology studies as a part of a research team. The thesis process involves a) developing a thesis proposal in conjunction with a thesis advisor and committee, and b) completion of the research, writing, and defense of the dissertation. With the assistance of the advisor, the student should select appropriate faculty for his/her thesis committee. The committee must be comprised of three members at a minimum, with at least one member a tenured faculty. The members of the thesis committee will meet with the student to approve the thesis proposal, and to determine that the student is adequately prepared to undertake it.

The student may generate his or her own research hypothesis or work with a faculty member who outlines a research hypothesis. The use of existing data to test a hypothesis using standard epidemiological study designs and analytic techniques is recommended. However, other formats (e.g. descriptive studies and studies with limited field work), may be acceptable. It is anticipated that the thesis results will be suitable for publication in a peer reviewed scientific journal.

Performance Standards

In addition to school-wide standards, no grade below “B” is acceptable in any Epidemiology or Biostatistics required course. If a grade below “B” is achieved in such a course, it may be repeated once. Failure to maintain this standard will be grounds for dismissal from the Epidemiology Program.

HEALTH POLICY AND ADMINISTRATION – MS

The MS in Health Policy and Administration program requires a minimum of 48 semester hours (SH). This program is designed for completion in 2 years when enrolled full-time and includes the following course requirements:

I. School-Wide Core Requirements (23 SH)

Course	Title	Credits
BSTT 400	Biostatistics I	4 SH
EPID 403	Introduction to Epidemiology: Principles and Methods	3 SH
IPHS 598	Research in the Public Health Sciences – MS	16 SH
Required Non-Credit		
Training: http://tigger.uic.edu/depts/ovcr/research/protocolreview/irb/education/index.shtml		
HIPAA Research Training		Non-credit
Investigator Training 101		Non-credit

II. Divisional Requirements (25 SH)

MS students in Health Policy and Administration must complete 25 hours of course work relevant to the disciplinary area of Health Policy and Administration. This course work is chosen in consultation with the faculty advisor.

All students must complete a minimum of 9 semester hours of 500-level courses in the major area of concentration.

HEALTH POLICY AND ADMINISTRATION – MS IN CLINICAL AND TRANSLATIONAL SCIENCE (MS CTS)

The MS in Clinical and Translational Science (MS CTS) program requires a minimum of 48 semester hours (SH). This program is designed for completion in 2 years when enrolled full-time and includes the following course requirements:

I. School-Wide Core Requirements (23 SH)

Course	Title	Credits
BSTT 400	Biostatistics I	4 SH
EPID 403	Introduction to Epidemiology: Principles and Methods	3 SH
IPHS 598	Research in the Public Health Sciences – MS*	16 SH
Required Non-Credit		
Training: http://tigger.uic.edu/depts/ovcr/research/protocolreview/irb/education/index.shtml		
HIPAA Research Training		Non-credit
Investigator Training 101		Non-credit

II. Divisional Core Requirements (14 SH)

Course	Title	Credits
BHIS 509	Informatics for the Clinical Investigator	3 SH
BSTT 401	Biostatistics II	4 SH
HPA 522	Public Health Research Design and Methods	3 SH
HPA 591	Grant Writing for New Investigators	3 SH
MHPE 512*	Ethics in Clinical Research	1 SH

*Students may substitute GC 401 (0 SH) for MHPE 512. UIC electives must be increased by 1 SH.

III. Electives (11 SH)

All students must complete a minimum of 11 semester hours of electives selected from across disciplines at UIC. With input from their advisor and mentor, students will choose appropriate electives that are tailored to their unique backgrounds, skill levels, areas of interest, research focus, and future goals. At least 9 semester hours must be 500-level courses excluding thesis or independent study.

*MS Thesis Research Requirements

Sixteen credits of mentored research (IPHS 598-Research) must be completed in two to three semesters of full time work leading to the completion of a publishable paper and a research proposal. The research must be completed under the supervision of an approved clinical investigator and with the approval of a mentorship committee designed specifically for each student.

Final Oral Examination

The final oral examination consists of a presentation of the student's research findings at an open meeting of students and faculty and a separate oral examination in the academic division by the student's Thesis Examining Committee. The presentation should be based on the publishable paper and research proposal products of the student's clinical research project.

JOINT DEGREE PROGRAM INFORMATION

The School of Public Health offers four joint or coordinated degree programs which allow students to complete both an MS in Clinical and Translational Science and a second professional degree in a shortened timeframe.

Joint Degree	Availability of Joint Degree Programs by Division				
	CHS	EOHS	Epi	Bio	HPA
DC/MS CTS					X
DMD/MS CTS					X
MD/MS CTS					X
PharmD/MS CTS					X

DC/MS CTS

The UIC School of Public Health (SPH) and the National University of Health Sciences (NUHS) offer a coordinated program leading to the Doctor of Chiropractic (DC) and the Master of Science in Clinical Translational Science (MS CTS).

The program of study leading to the DC/MS CTS coordinated degree is offered by the following SPH Division:

1. [Health Policy and Administration](#)

Program Goals:

The program is designed to prepare doctoral students of chiropractic with the skills required to combine clinical knowledge with the knowledge and skills needed for careers as researchers in the clinical and translational sciences. Graduates will be eligible for further training in specialty programs and will be able to advance successfully to tenure-track positions in complementary and alternative medical institutions that encourage CAM research to propel and support the CAM health care professions and require research for promotion.

Length of Program:

Full time students may complete the programs in four and one-half years including twelve trimesters of required DC course work, concurrent UIC SPH courses and one full time semester at UIC.

Program Requirements:

Students must complete a minimum of 48 semester hours of course work at SPH to satisfy the requirements of the MS CTS degree in addition to all the requirements of the NUHS DC degree. Students' work at UIC may qualify for up to twelve hours of elective credit at the National University of Health Sciences, depending on the specific courses chosen and applicability to the elective credit required for the NUHS DC program. Students will be required to meet all other curricular requirements of both NUHS and the UIC SPH division.

Students are strongly encouraged to begin studies at both schools in the Fall term. Students receiving financial aid through NUHS will be designated as students with NUHS as the "home" school and UIC as the "host school" through an NUHS – UIC consortium agreement.

Admission Requirements:

Students must apply to and be admitted separately to both the School of Public Health and the National University of Health Sciences Doctor of Chiropractic degree program. The policies of each program with respect to admission requirements, degree requirements, and other academic requirements are applicable.

To be considered for admission students must take the GRE, have earned a baccalaureate degree from an accredited institution, and satisfy other application requirements for each institution.

Applicants must be accepted into both schools and complete the DC/MS CTS application available from the NUHS Thomas Grieve, DC, MPH, phone: (630) 889-6442, tgrieve@nuhs.edu.

Requirements for the MS CTS portion of the degree are as follows:

I. School-Wide Core Requirements (23 SH)

Course	Title	Credits
BSTT 400	Biostatistics I	4 SH
EPID 403	Introduction to Epidemiology: Principles and Methods	3 SH
IPHS 598	Research in the Public Health Sciences – MS*	16 SH
Required Non-Credit		
Training: http://tigger.uic.edu/depts/ovcr/research/protocolreview/irb/education/index.shtml		
HIPAA Research Training		Non-credit
Investigator Training 101		Non-credit

II. Divisional Core Requirements (12 SH)

Course	Title	Credits
BHIS 509	Informatics for the Clinical Investigator	3 SH
BSTT 401	Biostatistics II	4 SH
HPA 522	Public Health Research Design and Methods	3 SH
HPA 590	Grant Writing	1 SH
MHPE 512*	Ethics in Clinical Research	1 SH

*Students may substitute GC 401 for MHPE 512. UIC electives must be increased by 1 SH.

III. Electives (13 SH)

All students must complete a minimum of 13 semester hours of electives selected from across disciplines at UIC. With input from their advisor and mentor, students will choose appropriate electives that are tailored to their unique backgrounds, skill levels, areas of interest, research focus, and future goals. At least 9 semester hours must be 500-level courses excluding thesis or independent study.

*MS Thesis Research Requirements

Sixteen credits of mentored research (IPHS 598-Research) must be completed in two to three semesters of full time work leading to the completion of a publishable paper and a research proposal. The research must be completed under the supervision of an approved clinical investigator and with the approval of a mentorship committee designed specifically for each student.

Final Oral Examination

The final oral examination consists of a presentation of the student's research findings at an open meeting of students and faculty and a separate oral examination in the academic division by the student's Thesis Examining Committee. The presentation should be based on the publishable paper and research proposal products of the student's clinical research project.

An example of progression through the coordinated DC/MS CTS program follows:

Example DC/MS CTS Coordinated Degree Course Schedule Fall Term UIC Admission with Fall or Spring UIC Intensive Term

NUHS Phase/term	UIC SPH Class	Credit Hours
Phase 1 (4 term)	HIPAA Research Training Investigator Training 101	Required Non-Credit Training
P1	BSTT 400: Biostatistics I SPH core	4
P1	EPID 403: Introduction to Epidemiology: Principles and Methods SPH core	3

P1	MHPE 512: Ethics in Clinical Research*	1
P1	HPA 590: Grant Writing	1
Phase 1 complete		
TX¹ No NUHS Classes		
	BSTT 401: Biostatistics II	4
	BHIS 509: Informatics for the Clinical Investigator	3
	HPA 522: Public Health Research Design and Methods	3
	Elective²	1
Phase 2 (5 term)		
P2/T1	Elective²	3
P2/T2	Elective²	3
P2/T3	Elective²	3
P2/T4	Elective²	3
P2/T5	IPHS 598 ³	
Phase 3 (2 term)		
P3/T1 (intern 1)	IPHS 598 ³	
P3/T2 (intern 2)	IPHS 598 ³	16
	SPH Core Requirements	7
	Division Core	12
	Electives	13
	Mentored Research	16
	Total	48

*Students may substitute GC 401 for MHPE 512. UIC electives must be increased by 1 SH.

¹ UIC Intensive Term

² Electives (13 SH) All students must complete a minimum of 13 semester hours of electives selected from across disciplines at UIC. At least nine 9 SH must be 500-level courses excluding thesis or independent study.

³ Sixteen credits of mentored research (IPHS 598-Research) must be completed in two to three semesters of full time work leading to the completion of a publishable paper and a research proposal.

Contact Information

For further information about this joint degree program, please contact the following individuals:

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National University of Health Sciences

Thomas Grieve, DC, MPH

(630) 889-6442

tgrieve@nuhs.edu

DMD/MS CTS

The UIC College of Dentistry (COD) and the UIC School of Public Health offer a joint degree program leading to the Doctor of Dental Medicine (DMD) and Master of Science in Clinical and Translational Science (MS CTS) degrees.

The program of study leading to the DMD/MS CTS joint degree is offered by the following SPH Division:

1. [Health Policy and Administration](#)

Length of Program: Full-time students may complete the degree in five years.

Admission Requirements:

- Must apply and be accepted to both the UIC College of Dentistry and UIC School of Public Health
- Apply for joint degree program on admission application

Program Requirements:

The joint degree program will be available to dental students with a timeline and mentored research requirement that will incorporate their clinical and research training. Interested dental students are encouraged to apply as soon as possible, preferably no later than May 1 of their first year in the DMD program (D1 year). Dental students choosing the joint program should be dedicated to the goals of both programs and of high academic talent to accomplish the goals and demands of the joint program. The program will typically require only one year beyond the commitment for the DMD degree.

Students in the program must satisfy requirements of the Masters of Science in Clinical and Translational Science, a 48 semester hour program, and satisfy four years of the required Doctor of Dental Medicine Degree program of study. Upon admission to the MS in CTS program, students will participate in a variety of seminars and workshops, which are described in greater detail below. They will be expected to continue to participate in these seminars and workshops until the completion of the joint program.

Requirements for the MS CTS portion of the joint degree are as follows:

I. School-Wide Core Requirements (23 SH)

Course	Title	Credits
BSTT 400	Biostatistics I	4 SH
EPID 403	Introduction to Epidemiology: Principles and Methods	3 SH
IPHS 598	Research in the Public Health Sciences – MS*	16 SH
Required Non-Credit		
Training: http://tigger.uic.edu/depts/ovcr/research/protocolreview/irb/education/index.shtml		
HIPAA Research Training		Non-credit
Investigator Training 101		Non-credit

II. Divisional Core Requirements (12 SH)

Course	Title	Credits
BHIS 509	Informatics for the Clinical Investigator	3 SH
BSTT 401	Biostatistics II	4 SH
HPA 522	Public Health Research Design and Methods	3 SH

HPA 590	Grant Writing	1 SH
MHPE 512*	Ethics in Clinical Research	1 SH

*Students may substitute GC 401 for MHPE 512. UIC electives must be increased by 1 SH.

III. Electives (13 SH)

All students must complete a minimum of 13 semester hours of electives selected from across disciplines at UIC. With input from their advisor and mentor, students will choose appropriate electives that are tailored to their unique backgrounds, skill levels, areas of interest, research focus, and future goals. At least 9 semester hours must be 500-level courses excluding thesis or independent study.

*MS Thesis Research Requirements

Sixteen credits of mentored research (IPHS 598-Research) must be completed in two to three semesters of full time work leading to the completion of a publishable paper and a research proposal. The research must be completed under the supervision of an approved clinical investigator and with the approval of a mentorship committee designed specifically for each student.

Final Oral Examination

The final oral examination consists of a presentation of the student's research findings at an open meeting of students and faculty and a separate oral examination in the academic division by the student's Thesis Examining Committee. The presentation should be based on the publishable paper and research proposal products of the student's clinical research project.

An example of progression through the joint degree DMD/MS CTS program follows:

D1 YEAR (39 SH)		
FALL SEMESTER		
Course	Title	Credits
DBCS 311	Biomedical and Clinical Sciences in Dentistry I	8 SH
DBCS 312	Biomedical and Clinical Sciences in Dentistry II	5 SH
DBCS 313	Biomedical and Clinical Sciences in Dentistry III	5 SH
DAOB 311	Applied Oral and Behavioral Sciences I	3 SH
SPRING SEMESTER		
DBCS 314	Biomedical and Clinical Sciences in Dentistry IV	5 SH
DBCS 315	Biomedical and Clinical Sciences in Dentistry V	5 SH
DBCS 316	Biomedical and Clinical Sciences in Dentistry VI	5 SH
DAOB 312	Applied Oral and Behavioral Sciences II	3 SH
YEAR 2 (48 SH)		
School of Public Health MS CTS Courses		
BHIS 509	Informatics for the Clinical Investigator	3 SH
BSTT 400	Biostatistics I	4 SH
BSTT 401	Biostatistics II	4 SH
EPID 403	Introduction to Epidemiology: Principles and Methods	3 SH
HPA 522	Public Health Research Design and Methods	3 SH
HPA 590	Grant Writing	1 SH
MHPE 512	Ethics in Clinical Research*	1 SH
IPHS 598	Research in Public Health Sciences - M.S.**	0-16 SH
	Electives	13 SH

Required Non-Credit		
Training: http://tiger.uic.edu/depts/ovcr/research/protocolreview/irb/education/index.shtml		
HIPAA Research Training		Non-credit
Investigator Training 101		Non-credit
D2 YEAR (59 SH)		
SUMMER SEMESTER		
DBCS 321	Biomedical and Clinical Sciences in Dentistry VII	4 SH
DBCS 322	Biomedical and Clinical Sciences in Dentistry VIII	4 SH
DBCS 323	Biomedical and Clinical Sciences in Dentistry IX	4 SH
DAOB 321	Applied Oral and Behavioral Sciences III	8 SH
FALL SEMESTER		
DBCS 324	Biomedical and Clinical Sciences in Dentistry X	4 SH
DBCS 325	Biomedical and Clinical Sciences in Dentistry XI	4 SH
DBCS 326	Biomedical and Clinical Sciences in Dentistry XII	4 SH
DAOB 322	Applied Oral and Behavioral Sciences IV	8 SH
SPRING SEMESTER		
DBCS 327	Biomedical and Clinical Sciences in Dentistry XIII	3 SH
DBCS 328	Biomedical and Clinical Sciences in Dentistry XIV	3 SH
DBCS 329	Biomedical and Clinical Sciences in Dentistry XV	3 SH
DAOB 323	Applied Oral and Behavioral Sciences V	10 SH
D3 YEAR (60 SH)		
SUMMER SEMESTER		
DOST 331	Oral/Systemic Topics in Dentistry I	10 SH
DAOB 331	Applied Oral and Behavioral Sciences VI	10 SH
FALL SEMESTER		
DOST 332	Oral/Systemic Topics in Dentistry II	10 SH
DAOB 332	Applied Oral and Behavioral Sciences VII	10 SH
SPRING SEMESTER		
DOST 333	Oral/Systemic Topics in Dentistry III	10 SH
DAOB 333	Applied Oral and Behavioral Sciences VIII	10 SH
D4 YEAR (54 SH)**		
SUMMER SEMESTER		
DOSI 341	Oral/Systemic Issues in Dentistry I	7 SH
DAOB 341	Applied Oral and Behavioral Sciences IX	5-10 SH
DCLE 341	Community Learning Experience in Dentistry	1-6 SH
FALL SEMESTER		
DOSI 342	Oral/Systemic Issues in Dentistry II	7 SH
DAOB 342	Applied Oral and Behavioral Sciences X	5-10 SH
DCLE 342	Community Learning Experience in Dentistry	1-6 SH
SPRING SEMESTER		
DOSI 343	Oral/Systemic Issues in Dentistry III	7 SH
DAOB 343	Applied Oral and Behavioral Sciences XI	5-10 SH
DCLE 343	Community Learning Experience in Dentistry	1-6 SH

*Students may substitute GC 401 for MHPE 512. UIC electives must be increased by 1 SH.

**Students may register for IPHS 598 Research Hours in their second year of study, and continue their mentored research throughout years 3-5.

*** In consultation with faculty mentors, D4 students will register for 18 credit hours each semester. The distribution of hours between DAOB and DCLE will depend on each student's need for supervision. Students who are ready to practice with minimal supervision will spend more time in extramural rotations (DCLE), while those who need more extensive mentoring will spend more time in COD clinics under the supervision of COD faculty members (DAOB).

Contact Information

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MD/MS CTS

The UIC College of Medicine (COM) and the UIC School of Public Health offer a joint degree leading to the Doctor of Medicine (MD) and Master of Science in Clinical and Translational Science (MS CTS) degrees.

The program of study leading to the MD/MS CTS joint degree is offered by the following SPH Division:

1. [Health Policy and Administration](#)

Length of Program: Full-time students may complete the degree in five years.

Admission Requirements:

- Must apply and be accepted to both the UIC College of Medicine and UIC School of Public Health
- Apply for joint degree program on admission application
- Students will also be required to submit a joint degree application to the College of Medicine

Requirements for the MS CTS portion of the joint degree are as follows:

I. School-Wide Core Requirements (23 SH)

Course	Title	Credits
BSTT 400	Biostatistics I	4 SH
EPID 403	Introduction to Epidemiology: Principles and Methods	3 SH
IPHS 598	Research in the Public Health Sciences – MS*	16 SH
Required Non-Credit		
Training: http://tigger.uic.edu/depts/ovcr/research/protocolreview/irb/education/index.shtml		
HIPAA Research Training		Non-credit
Investigator Training 101		Non-credit

II. Divisional Core Requirements (12 SH)

Course	Title	Credits
BHIS 509	Informatics for the Clinical Investigator	3 SH
BSTT 401	Biostatistics II	4 SH
HPA 522	Public Health Research Design and Methods	3 SH
HPA 590	Grant Writing	1 SH
MHPE 512	Ethics in Clinical Research*	1 SH

*Students may substitute GC 401 for MHPE 512. UIC electives must be increased by 1 SH.

III. Electives (13 SH)

All students must complete a minimum of 13 semester hours of electives selected from across disciplines at UIC. With input from their advisor and mentor, students will choose appropriate electives that are tailored to their unique backgrounds, skill levels, areas of interest, research focus, and future goals. At least 9 semester hours must be 500-level courses excluding thesis or independent study.

*MS Thesis Research Requirements

Sixteen credits of mentored research (IPHS 598-Research) must be completed in two to three semesters of full time work leading to the completion of a publishable paper and a research proposal. The research

must be completed under the supervision of an approved clinical investigator and with the approval of a mentorship committee designed specifically for each student.

Final Oral Examination

The final oral examination consists of a presentation of the student's research findings at an open meeting of students and faculty and a separate oral examination in the academic division by the student's Thesis Examining Committee. The presentation should be based on the publishable paper and research proposal products of the student's clinical research project.

An example of progression through the joint degree MD/MS CTS program follows:

M1 YEAR		
FALL AND SPRING SEMESTERS		
Students complete M1 Year requirements		
SUMMER SEMESTER		
Course	Title	Credits
	MS Elective	3 SH
M2 YEAR		
FALL AND SPRING SEMESTERS		
Students complete M2 Year requirements		
M3 YEAR		
FALL AND SPRING SEMESTERS		
Students complete M3 Year requirements		
YEAR 4 (35 SH)		
School of Public Health MS CTS Courses		
FALL SEMESTER		
BSTT 400	Biostatistics I	4 SH
MHPE 512	Ethics in Clinical Research*	1 SH
EPID 403	Introduction to Epidemiology: Principles and Methods	3 SH
HPA 522	Public Health Research Design and Methods	3 SH
SPRING SEMESTER		
BSTT 401	Biostatistics II	4 SH
BHIS 509	Informatics for the Clinical Investigator	3 SH
	MS Electives	5 SH
IPHS 598	Research in Public Health Sciences - M.S.	4 SH
SUMMER SEMESTER		
HPA 590	Grant Writing	1 SH
	MS Electives	3 SH
IPHS 598	Research in Public Health Sciences - M.S.	4 SH
Required Non-Credit		
Training: http://tigger.uic.edu/depts/ovcr/research/protocolreview/irb/education/index.shtml		
HIPAA Research Training		Non-credit
Investigator Training 101		Non-credit
YEAR 5		
FALL AND SPRING SEMESTERS		
Students complete M4 Year requirements		
IPHS 598	Research in Public Health Sciences - M.S.	8 SH

*Students may substitute GC 401 for MHPE 512. UIC electives must be increased by 1 SH.

Shared Courses

- With proper advisement, MD/MS CTS students may apply a maximum of 8 semester hours of MS research hours (IPHS 598) during the M4 year toward MD M4 electives.
- With proper planning and prior approval of the MS advisor, joint degree students may take a non-clinical medical elective during their M4 year and receive independent study credit toward the MS degree.
- With proper planning and prior approval by the Dean of Educational Affairs within the COM, joint degree students may receive credit toward the M4 electives by taking an advanced-level public health course.
- No more than 12 total hours will consist of shared coursework.

Contact Information**School of Public Health**

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PHARMD/MS CTS

The UIC College of Pharmacy (COP) and the UIC School of Public Health offer a joint degree program leading to the Doctor of Pharmacy (PharmD) and Master of Science in Clinical and Translational Science (MS CTS) degrees.

The program of study leading to the PharmD/MS CTS joint degree is offered by the following SPH Division:

1. [Health Policy and Administration](#)

Length of Program: Full-time students may complete the degree in five years.

Admission Requirements:

- Must apply and be accepted to both the UIC College of Pharmacy and UIC School of Public Health
- Apply for joint degree program on admission application

Program Requirements:

The joint degree program will be available to pharmacy students with a timeline and mentored research requirement that will incorporate their clinical and research training. Interested pharmacy students are encouraged to apply as soon as possible, preferably no later than May 1 of their first year in the PharmD program (P1 year) for those with a prior Bacculaureate degree, and no later than May 1 of their second year in the PharmD program (P2 year) for those without a prior Bacculaureate degree. Pharmacy students choosing the joint program should be dedicated to the goals of both programs and of high academic talent to accomplish the goals and demands of the joint program.

The program will typically require only one year beyond the commitment for the PharmD degree. Participating pharmacy students who have received a Bacculaureate degree prior to entry into the PharmD program can begin the didactic portion of the MS in CTS program in the summer between their P1 and P2 years. PharmD students who did not receive a Bacculaureate degree prior to entry into the PharmD program can be admitted into the MS in CTS program upon completion of their P2 year and can receive up to 12 credit hours towards their MS in CTS for courses they completed prior to their admission to the program.

Students in the program must satisfy requirements of the Master of Science in Clinical and Translational Science (MS CTS), a 48 semester hour program, and satisfy 133 semester hours required for Doctor of Pharmacy (PharmD) program of study. Upon admission to the MS in CTS program, students will participate in a variety of seminars and workshops, which are described in greater detail below. They will be expected to continue to participate in these seminars and workshops until the completion of the joint program.

Requirements for the MS CTS portion of the joint degree are as follows:

I. School-Wide Core Requirements (23 SH)

Course	Title	Credits
BSTT 400	Biostatistics I	4 SH
EPID 403	Introduction to Epidemiology: Principles and Methods	3 SH
IPHS 598	Research in the Public Health Sciences – MS*	16 SH
Required Non-Credit		

Training: http://tigger.uic.edu/depts/ovcr/research/protocolreview/irb/education/index.shtml	
HIPAA Training Live or HSPP 105: HIPAA Online Training	Non-credit
Investigator Training 101	Non-credit

II. Divisional Core Requirements (12 SH)

Course	Title	Credits
BHIS 509	Informatics for the Clinical Investigator	3 SH
BSTT 401	Biostatistics II	4 SH
HPA 522	Public Health Research Design and Methods	3 SH
HPA 590	Grant Writing	1 SH
MHPE 512	Ethics in Clinical Research*	1 SH

*Students may substitute GC 401 for MHPE 512. UIC electives must be increased by 1 SH.

III. Electives (13 SH)

All students must complete a minimum of 13 semester hours of electives selected from across disciplines at UIC. With input from their advisor and mentor, students will choose appropriate electives that are tailored to their unique backgrounds, skill levels, areas of interest, research focus, and future goals. At least 9 semester hours must be 500-level courses excluding thesis or independent study.

*MS Thesis Research Requirements

Sixteen credits of mentored research (IPHS 598-Research) must be completed in two to three semesters of full time work leading to the completion of a publishable paper and a research proposal. The research must be completed under the supervision of an approved clinical investigator and with the approval of a mentorship committee designed specifically for each student.

Final Oral Examination

The final oral examination consists of a presentation of the student's research findings at an open meeting of students and faculty and a separate oral examination in the academic division by the student's Thesis Examining Committee. The presentation should be based on the publishable paper and research proposal products of the student's clinical research project.

An example of progression through the joint degree PharmD/MS CTS program follows:

P1 YEAR (33-36 SH)		
FALL SEMESTER		
Course	Title	Credits
PHAR 321	Drug Delivery Systems I	3 SH
PHAR 331	Fundamentals of Drug Action I	5 SH
PHAR 441	Roles, Environments & Communications	3 SH
PHYB 301	Human Physiology & Pathophysiology I	5 SH
	Electives*	0-2 SH
SPRING SEMESTER		
PHAR 332	Fundamentals of Drug Action II	4 SH
PHYB 302	Human Physiology & Pathophysiology II	5 SH
PHAR 322	Drug Delivery Systems II	3 SH
PHAR 400	Pharmacokinetics	3 SH
PHAR 342	Experiential I - IPPE	2 SH
	Electives*	0-1 SH

P2 YEAR 2 (33-35 SH)		
FALL SEMESTER		
PHAR 323	Drug Delivery Systems III	3 SH
PHAR 333	Fundamentals of Drug Action III	4 SH
PHAR 401	Principles of Drug Action & Therapeutics I	3 SH
PHAR 402	Principles of Drug Action & Therapeutics II	4 SH
PHAR 352	Experiential II - IPPE	2 SH
	Electives*	0-1 SH
SPRING SEMESTER		
PHAR 324	Contemporary Pharmacy Practice	3 SH
PHAR 343	Pharmacy Systems Management	2 SH
PHAR 455	Drug Information & Statistics	4 SH
PHAR 403	Principles of Drug Action & Therapeutics III	3 SH
PHAR 404	Principles of Drug Action & Therapeutics IV	3 SH
PHAR 344	Social & Behavioral Pharmacy	2 SH
	Electives*	0-1 SH
P3 YEAR 3 (35-40SH)		
FALL SEMESTER		
PHAR 405	Principles of Drug Action & Therapeutics V	3 SH
PHAR 406	Principles of Drug Action & Therapeutics VI	3 SH
PHAR 346	Pharmacy Services & Reimbursement	2 SH
PHAR 445	Pharmacy Law	3 SH
PHAR 353	Experiential III - IPPE	2 SH
	Electives*	2-5 SH
SPRING SEMESTER		
PHAR 407	Principles of Drug Action & Therapeutics VII	4 SH
PHAR 408	Principles of Drug Action & Therapeutics VIII	3 SH
PHAR 354	Experiential IV - IPPE	2 SH
PHAR 365	Nonprescription Pharmaceuticals & Herbal Medicinals	3 SH
PHAR 356	Principles of Pharmacoeconomics & Drug Treatment Outcomes	2 SH
	Electives*	2-4 SH
SUMMER SEMESTER		
PHAR 357	Experiential V-IPPE	4 SH
P4 YEAR (24 SH)		
FALL SEMESTER		
Required P4 Clerkships (total 16 SH):		
PHAR 371	Ambulatory Care	4 SH
PHAR 372	Community Practice	4 SH
PHAR 373	Hospital Practice	4 SH
PHAR 374	Medicine	4 SH
SPRING SEMESTER		
Possible P4 Clerkship Electives (total 8 SH):		
PMPR 388	Advanced Specialty Research	4 SH
YEAR 5 (48 SH)		
School of Public Health MS CTS Courses		
Course	Title	Credits
BHIS 509	Informatics for the Clinical Investigator	3 SH
BSTT 400	Biostatistics I	4 SH

BSTT 401	Biostatistics II	4 SH
EPID 403	Introduction to Epidemiology: Principles and Methods	3 SH
HPA 522	Public Health Research Design and Methods	3 SH
HPA 590	Grant Writing	1 SH
MHPE 512	Ethics in Clinical Research	1 SH
IPHS 598	Research in Public Health Sciences - M.S.	0-16 SH
	Electives	13 SH
Required Non-Credit		
Training: http://tigger.uic.edu/depts/ovcr/research/protocolreview/irb/education/index.shtml		
HIPAA Research Training		Non-credit
Investigator Training 101		Non-credit

* Students are required to take a total of 12 semester hours of didactic electives during the P-1 to P-3 years.

Shared Courses

- With proper planning and prior approval of the MS Advisor and Director of Advanced Pharmacy Practice Experiences (APPE), joint degree students may take a non-clinical pharmacy elective during their P3 year and receive MS CTS elective credit (or take an advanced level public health course and receive PharmD elective credit).
- Shared elective coursework is limited to a maximum of 4 semester hours. Sample shared elective courses include:
 - Sample Pharmacy Electives:
 - PHAR 455 Drug Information & Statistics (4)
 - PSOP 525 Medication, Identity and Illness (3)
 - Sample Public Health Electives:
 - HPA 403 US Health Care System (3)
 - BSTT 506 Design of Clinical Trials (3)
 - HPA/PSOP 573 Principles of Economic Evaluations of Health Care Interventions (3)
- With proper advisement, PharmD/MS CTS students may apply a maximum of 4 semester hours of MS research (IPHS598) taken during the P3 year toward pharmacy electives (independent study-research elective).
- With proper advisement, PharmD/MS CTS students may apply a maximum of 4 semester hours of MS research hours (IPHS 598) taken during the P4 year toward P4 Clerkship Electives requirements.
- No more than 12 total hours will consist of shared coursework.

Advising joint degree program students

Students in the joint degree program will be assigned advisors from the COP's Office of Student Affairs and the MS in CTS program. Advising will assure that a student is excelling in both programs and not sacrificing one for the benefit of the other.

Contact Information

School of Public Health

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INTERDEPARTMENTAL CONCENTRATIONS

The School of Public Health offers five Interdepartmental Concentrations for MS students to participate in.

Interdepartmental Concentration	Availability of Interdepartmental Concentration by Division				
	CHS	EOHS	Epi	Bio	HPA
Gender and Women's Studies	X	X	X	X	X
Global Health	X	X	X	X	X
Survey Research	X	X	X	X	X
Violence Studies	X	X	X	X	X
Women's Health	X	X	X	X	X

MS students in the Division of Environmental and Occupational Health Sciences may also be interested in the [Peace Corps Masters International \(PCMI\) program](#).

GENDER AND WOMEN'S STUDIES CONCENTRATION

The School of Public Health is a participating department in the graduate concentration in Gender and Women's Studies offered by the Gender and Women's Studies Program at the University of Illinois at Chicago. Once admitted to SPH, students may apply to the GWS Program for admission to the concentration.

Experiencing GWS courses will allow students to critically examine issues of women and gender, as well as their complex intersections with race, class, ethnicity, and sexual identity; providing a rich, interdisciplinary focus.

For additional details about the program
visit: <http://www.uic.edu/depts/wsweb/academics/graduate.html>.

Contact Information

For further information about the concentration in Gender and Women's Studies please contact:

John D'Emilio, PhD
Director of Graduate Studies, Department of Gender and Women's Studies
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demilioj@uic.edu

GLOBAL HEALTH CONCENTRATION

The Global Health Concentration is designed to attract students at the master's level who are interested in preparing for international careers in government, health care agencies, NGOs, industry, and academic institutions. International students who undertake the concentration will be better prepared to return to their home countries to work in the country's ministry of health, international governmental agencies, and other health care organizations.

At the conclusion of the concentration, students will be able to:

- Describe key historical events that have shaped public health internationally;
- Analyze the economic, political, social, and other contextual properties of global health;
- Discuss the significance of gender in relation to health in a global context;
- Apply appropriate theoretical frameworks to public health program development in the global context;
- Identify and apply community health prevention and intervention models appropriate for diverse global contexts;
- Apply methodological skills appropriate to global studies including rapid assessment techniques and program evaluation;
- Promote ethical principles in international research and practice;
- Apply information and technology transfer techniques;
- Draw upon international or other relevant experience to inform their global health careers

Upon admission to the SPH division of their choice ([CHS](#), [EPI-BIO](#), [EOHS](#) or [HPA](#)), students must apply to the Global Health Concentration through submission of a Global Health Concentration Application and Program of Study. With proper planning the concentration can be completed during the same time period required for the MPH Professional Enhancement Program (PEP), MPH Comprehensive program, or the MS program.

In addition to MPH* or MS** program requirements, students electing the Global Health Concentration must complete a minimum of 9 semester hours consisting of the following courses:

Concentration Course Requirements (6 SH)

Course	Title	Credits
IPHS 409	Global Public Health Challenges	3 SH
IPHS 410	Global Public Health Solutions	3 SH

Electives (3 SH)

Taking a cross-disciplinary approach to public health, the Global Health Concentration draws upon course work and other resources throughout UIC that will help GH students to deepen their knowledge and understanding of the challenges, issues, and skills required to successfully address health problems globally. Selection of an elective should be made with the help of the student's academic advisor.

Students should select at least one of the courses listed below to satisfy the Global Health Concentration 3 SH elective requirement. Please note that registration is subject to the offering department's approval.

*Additional Requirements for MPH Students

- IPHS 650 MPH Field Experience in Public Health (3 to 5 SH)

- IPHS 698 MPH Capstone Experience (1 SH)

MPH students must complete the **MPH Field Experience and the MPH Capstone Experience** with a **global health focus**. For most students it is anticipated the Capstone Project will be based upon the student's global health field experience. Students must assure that the MPH Field Experience and Capstone Experience meet the academic requirements of the division in which the student is enrolled. As such, students must meet with both the divisional field practicum coordinator and Alyson Lofthouse, Projects Coordinator, to assure the experience meets the academic requirements for both the division and the global health concentration.

Students without prior international experience are encouraged to complete a field experience based internationally or to identify an appropriate alternative. Global health field experiences include but are not limited to: working with an international NGO, a global health agency, or an ethnic community in the U.S.

With permission from their advisor, PEP MPH students with prior international experience suitable for their division have the option of either petitioning the Committee on Academic Progress (CAP) to waive the field experience or undertaking the internship. If the internship is waived, students in the concentration must complete an additional 3 SH elective in global health. (With proper planning, the substitute elective may satisfy both GHC and division requirements.)

****Additional Requirements for MS Students**

MS students must focus their research thesis on a global health related topic either outside the U.S. or domestically through an appropriate alternative venue. [Note, thesis research hours vary by division.]

Potential Global Health Elective Courses and Offering Departments

School of Public Health

- CHSC 594 International Women's Health: Current and Emerging Issues (1-4 SH)
- EPID 409 The Epidemiology of HIV/AIDS (2 SH)
- EPID 471 Population I (4 SH)
- EOHS 553 Global Environmental and Occupational Health Sciences (2 SH)
- EPID 594 Outbreak Investigation/Field Epidemiology (3 SH)
- EPID 529 Epidemiology of Sexually Transmitted Infections (3 SH)
- EOHS 553 Global Environmental and Occupational Health Sciences (2 SH)

Anthropology

- ANTH 415/IPHS 415 Anthropology and Global Health Foundations I (4 SH)
- ANTH 416/IPHS 416 Anthropology and Global Health Foundations II (4 SH)
- ANTH 474 - Urban Cultures of Africa (3 or 4 SH)
- ANTH 516/IPHS 516 Anthropology and Global Health Integrative Seminar (4 SH)
- ANTH 591/IPHS 591 Readings in Anthropology and Global Health (1-8 SH)
- ANTH 592/IPHS 592 Research in Anthropology and Global Health (1-8 SH)
- ANTH 593/IPHS 593 Special Topics in Anthropology and Global Health (4 SH)

Geography

- GEOG 453 Seminar in Cultural Ecology (4 SH)

Communication

- COMM 503 Seminar in Intercultural Communication (4 SH)
- COMM 506 Cross-Cultural Communication (4 SH)

Economics

- ECON 516 Economic Development in an Interdependent World (4 SH)
- ECON 521 Macro and International Economics for Business (4 SH)
- ECON 533 Economic Development and Human Resources (4 SH)
- ECON 552 Economic Demography (4 SH)

Gender and Women's Studies

- GWS 428 Asian/Asian American Women in the Global Economy (4 SH)

Management

- MGMT 557 International Management (4 SH)

Nursing

- NUEL 570 International Dimensions in Women's Health (3 SH)
- NURS 528 Health, Environment, and Systems (2 SH)

Public Administration

- PA 581 Cross-Cultural Survey Research Methods (2 SH)

Political Science

- POLS 479 Advanced Topics in Comparative Politics (4 SH)
- POLS 570 Comparative Politics and Public Policy (4 SH)
- POLS 571 Seminar in International Relations (4 SH)
- POLS 572 International Political Economy (4 SH)
- POLS 579 Research Topics in Comparative Politics (4 SH)

Social Work

- SOCW 522 Crisis Intervention (3 SH)

Sociology

- SOC 448 Sociology of Development (4 SH)

The following courses may be selected, depending on global content of the specialized topic:

- SOC 548 Seminar: Comparative Societies (1-7 SH)
- SOC 571 Seminar: Population and Human Ecology (1-7 SH)

Urban Planning and Policy

- UPP 520 Globalization and International Planning I: Theory and Applications (4 SH)
- UPP 521 Globalization and International Planning II: Comparative Planning and Policies (4 SH)
- UPP 525 Globalization and International Planning: Special Topics (1-4 SH)

Contact Information

For further information about the Global Health Concentration, please contact:

Alyson Lofthouse, MUPP
Projects Coordinator
(312) 996-0054

alofth2@uic.edu

Also, visit the School of Public Health Global Health website at <http://publichealth.uic.edu/globalhealthinitiative/>.

SURVEY RESEARCH METHODOLOGY CONCENTRATION

The Interdepartmental Graduate Concentration in Survey Research Methodology, for master's and doctoral students, provides graduate students with state-of-the-art knowledge and skills in scientifically-grounded survey research methodologies. Graduate students electing the Interdepartmental Graduate Concentration in Survey Research Methodology receive the master's or PhD after having fulfilled the requirements of the Graduate College, their major academic units, and the Interdepartmental Graduate Concentration in Survey Research Methodology.

Students must complete a minimum of 14 semester hours, consisting of at least 7 SH of approved core courses and electives. No more than 3 SH of independent study may be used toward satisfying the concentration.

Core Courses (minimum of 7 SH)

Students must complete three of the six courses listed below. (NOTE: If a student elects to complete both BSTT 440 and STAT 431, only one of those courses may be counted toward fulfilling the core course requirement):

Course	Title	Credits
CHSC 447	Survey Planning and Design	3 SH
CHSC 577	Survey Questionnaire Design	3 SH
BSTT 440	Sampling & Estimation Methods Applied to Public Health	3 SH
STAT 431	Introduction to Survey Sampling	4 SH
PA 588	Survey Data Reduction and Analysis	2 SH
PA 579	Practicum in Survey Research	2 SH

Elective Courses

Students must complete elective courses from the list below sufficient to complete 14 SH of total required coursework. (Elective courses may include courses from the list of core courses if those courses are not used to complete the core requirement.) No more than one independent study course (1 to 3 SH) may be used as an elective.

Course	Title	Credits
POLS 467	Public Opinion and Political Communication	4 SH
PA 580	Survey Nonresponse	2 SH
PA 578	Polling, Public Opinion and Public Policy	4 SH
PA 581	Cross-Cultural Survey Measurement	2 SH
PA 582	Survey Data Collection Methods	2 SH
PA 583	Psychology of Survey Measurement: Cognitive and Social Processes	2 SH
PA 584	Internet Surveys	2 SH
PA 585	Survey Research Ethics	2 SH
PA 586	History of Survey Research	2 SH
STAT 531	Sampling Theory I	4 SH
STAT 532	Sampling Theory II	4 SH

Course Substitutions

Students may substitute another course with permission of their graduate degree academic advisor and the Director(s) of the Survey Research Methodology Concentration. In general, no more than one course or independent study course (1 to 3 SH) may be substituted. However, under special circumstances, a student may petition for approval of additional courses.

Election of the Concentration

Students must be admitted or enrolled as a regular graduate student in a master's or doctoral degree program in one of the participating academic units listed at the concentration web site. Students must prepare a proposed schedule of coursework that fulfills the Interdepartmental Graduate Concentration in Survey Research Methodology requirements. The proposal must be signed by the student and his/her academic advisor. The signed proposal must be submitted to the Director(s) of the Survey Research Methodology Concentration. Concentration Director(s) will notify the student and academic advisor of the student's acceptance into the Concentration and whether the proposed coursework is approved.

Contact Information

For further information about the concentration in Survey Research Methodology please contact:

Allyson Holbrook, PhD
Associate Professor, Public Administration
312-996-0471
allyson@uic.edu

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Professor of Community Health Sciences
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fkviz@uic.edu

Also, visit the Interdepartmental Graduate Concentration in Survey Research Methodology at <http://www.srl.uic.edu/gcsrcm.htm>.

VIOLENCE STUDIES

The School of Public Health is a participating department in the graduate concentration in Violence Studies offered in collaboration with the Departments of Criminology, Law, and Justice, Psychology, and Political Science as well as the Gender and Women's Studies Program and the Jane Addams College of Social Work. The concentration is administered jointly through the Department of Criminology, Law, and Justice and the College of Social Work.

Composed of courses from multiple disciplines, this concentration provides students with a holistic view of the problem of violence in society and deepens their knowledge and skill set to address it. This concentration aims to produce broadly trained individuals who can apply theories and methods from multidisciplinary perspectives to critically analyze and effectively respond to various types of violence in society through innovative programs of research, policy development, treatment, and prevention. The concentration requires a minimum of 11 semester hours (4 courses) with two courses selected from a list of foundational courses and then two additional supplementary courses.

For additional details about the program including the required course work, review the Graduate Catalog description at <http://www.uic.edu/gcat/SWVIOS.shtml>.

Contact Information

For further information about the concentration in Violence Studies please contact:

Patricia O'Brien, PhD
Associate Professor, Jane Addams College of Social Work
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pob@uic.edu

WOMEN'S HEALTH CONCENTRATION

The Interdepartmental Graduate Concentration in Women's Health is co-sponsored by the UIC College of Nursing, the School of Public Health, and the Gender and Women's Studies program. The Concentration is housed within the College of Nursing.

This Concentration encompasses the multidisciplinary of Women's Health and provides training in the foundations of Women's Health through its structure and content. The Core courses provide a broad overview of the field and issues within Women's Health, and they address the need for a conceptual and applied background in Women's Health. The elective allows a student to pursue an issue or area of professional interest in Women's Health. The multidisciplinary requirement in this Concentration ensures that a student has significant exposure to a paradigm other than the dominant paradigms used within their own school or department.

This concentration is an elective concentration for graduate students, consisting of core and elective courses across several academic units. The Concentration curriculum can be completed without the need to change existing graduate college or departmental academic requirements. In the case of certain academic units, however, students may need to complete additional hours beyond the minimum required for a masters or a doctoral degree within their home school, college or department.

The Interdepartmental concentration in Women's Health requires 12 semester hours (SH) and is designed for completion in as little as four semesters by completing one course each semester. Students must complete at least 6 SH outside of their home area and take one core course from three separate areas: 1) Introductory Women's Health, 2) Women's Health Specific Issues, and 3) Theory/Methods.

For a complete description of the concentration, including its target audience, course requirements, and designated and affiliated faculty see the College of Nursing website at: http://www.uic.edu/nursing/prospectivestudents/womens_health_concentration.shtml.

Contact Information

For further information about the concentration in Women's Health please contact:

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Concentration Director and Clinical Associate Professor of Nursing
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cklima@uic.edu

PEACE CORPS MASTERS INTERNATIONAL

The UIC School of Public Health in collaboration with the Peace Corps' Masters International Program offers a Master of Science (MS) degree in Environmental and Occupational Health Sciences which provides students a unique opportunity of earning their graduate degree and gaining valuable experience in the global health arena. The typical program will include 1 ½ years of study at the School, followed by 27 months of service within the Peace Corps in a relevant public health-related placement; with opportunity to gather data toward the MS thesis. Students will return to the School for one semester following their Peace Corps service to complete their MS requirements. This combined program is the only one of its kind within the Midwest region.

Contact Information

For further information about the Peace Corps Masters International program, please contact:

Alyson Lofthouse, MUPP
Projects Coordinator
(312) 996-0054
alofth2@uic.edu

Also, visit the School of Public Health Global Health website at <http://publichealth.uic.edu/globalhealthinitiative/>.

MS DEGREE COMPETENCIES

The Master of Science (MS) degree in Public Health Sciences prepares individuals to enter academic, research, or professional careers pertaining to broad areas of public health concern. It is the appropriate route for continuing studies leading to the PhD degree. Academic preparation is offered through a broad spectrum of public health courses and related research from which students can fashion individualized curricula to meet highly specialized objectives. Integrated with the course work (in all areas but biostatistics) is a research project, the findings of which must be described in a research thesis. Interdisciplinary studies that combine two or more of the School's program areas are encouraged.

The MS degree is awarded under the University of Illinois at Chicago Graduate College. For the purposes of this degree program, the School of Public Health acts as the Department of Public Health Sciences (DPHS) of the Graduate College. All requirements related to the degree, as described in the UIC Graduate Study Catalog, must be met.

MS students will achieve the following competencies during completion of the MS program in public health:

- Demonstrate knowledge and understanding of a well-defined public health discipline and its connection to, and impact on, public health.
- Express understanding of discipline-specific theoretical constructs, research design, research methodology and analytical strategies.
- Illustrate the ability to evaluate and interpret scientific literature.
- Participate in an original research project that makes a contribution to the body of knowledge of their discipline.
- Exhibit the ability to disseminate research findings to the scientific community and the general public.

BIostatistics: MS Competencies

The MS student in Biostatistics should attain skills in the practice of biostatistics for research in academic, government, and industry settings. In addition to schoolwide competencies for all MS graduates in Public Health, the MS graduate in Biostatistics will be able to:

- Demonstrate knowledge of the theoretical basis for standard biostatistical methods.
- Understand specific biostatistical methods, including the underlying assumptions and limitations, and be able to select and apply the appropriate method for a given research problem.
- Work with data files and statistical packages.
- Understand standard diagnostic tools for statistical analysis.
- Communicate effectively about biostatistical methods, results and interpretation.

Community Health Sciences: MS Competencies

In addition to the school-wide competencies, for students pursuing the MS degree in Community Health Sciences, the following competencies apply:

- Demonstrate knowledge and understanding of a well-defined public health discipline and its connection to, and impact on, public health.
- Demonstrate understanding of discipline-specific theoretical constructs, research design, research methodology and analytical strategies.

- Demonstrate the ability to evaluate and interpret scientific literature.
- Participate in an original research project that makes a contribution to the body of knowledge of their discipline.
- Demonstrate the ability to disseminate research findings to the scientific community.

ENVIRONMENTAL AND OCCUPATIONAL HEALTH SCIENCES: MS COMPETENCIES

In addition to school-wide competencies, for students pursuing the MS degree in Environmental and Occupational Health Sciences, the following competencies apply:

- Demonstrate knowledge of fundamental principles of calculus, chemistry, physiology, toxicology, environmental chemistry, epidemiology, biostatistics, and environmental and occupational policies and regulations, and exhibit in-depth knowledge in at least one area of environmental and occupational health sciences.
- Frame and conduct a workplace, community or environmental assessment; recognize, identify and assess exposures to environmental stressors, including proper operation of environmental instrumentation, when necessary; apply quantitative modeling techniques where appropriate; develop control strategies; and develop and evaluate training programs.
- Synthesize bodies of information; critically read and evaluate scientific papers; collect, analyze and report environmental and/or occupational health data; define, analyze and recommend interventions for environmental and occupational health problems based on sound technical and ethical considerations; and prioritize issues and interventions even with incomplete information.
- Apply the scientific method to a research project and demonstrate research skills and methods, including ethical conduct of

research and policies and procedures related to human subject research.

- Illustrate effective communication through scientific writing and oral presentations to peers, scientific organizations and communities.
- Demonstrate an understanding of the benefits of multidisciplinary approaches to environmental and occupational health problems; describe how environmental health and safety fits into organizational structures; demonstrate effective teamwork; and exhibit integrity, courage and willingness to create change.

In addition to the EOHS MS competencies, students in the **ABET-Accredited Industrial Hygiene** concentration will be able to:

- Identify agents, factors, and stressors generated by and/or associated with defined sources, unit operations, and/or processes;
- Describe qualitative and quantitative aspects of generation of agents, factors, and stressors;
- Understand physiological and/or toxicological interactions of physical, chemical, biological, and ergonomic agents, factors, and/or stressors with the human body;
- Assess qualitative and quantitative aspects of exposure assessment, dose-response, and risk characterization based on applicable pathways and modes of entry;
- Calculate, interpret, and apply statistical and epidemiological data to occupational health problems;
- Recommend and evaluate engineering, administrative, and personal protective equipment controls and/or other interventions to reduce or eliminate hazards;
- Demonstrate an understanding of applicable business and managerial practices;
- Interpret and apply applicable occupational and environmental regulations; and
- Explain fundamental aspects of safety and environmental health.

In addition to the EOHS MS competencies, students in the **Occupational Safety** concentration will be able to:

- Evaluate workplace safety hazards and anticipate related adverse health consequences.
- Utilize exposure and injury data as the basis for developing solutions to workplace safety hazards.

EPIDEMIOLOGY: MS COMPETENCIES

In addition to the school-wide competencies, for students pursuing the MS degree in Epidemiology, the following competencies apply:

- Exhibit the ability for problem conceptualization and study design.
- Demonstrate critical reading skills and the ability to synthesize epidemiological and related biological information.
- Illustrate the ability to write reports from studies that are suitable for publication in scientific journals.

Additionally, the **Cancer Epidemiology** concentration is intended to provide specialized training to enable MS students:

- To describe and characterize the major known determinants of cancer;
- To describe, locate, analyze and interpret existing data relevant to cancer;
- To understand the strengths and weaknesses of alternative epidemiologic study designs in the context of cancer research; and
- To work within a multidisciplinary team to study behavioral, environmental, infectious, nutritional and/or genetic factors involved in cancer etiology.

OCCUPATIONAL AND ENVIRONMENTAL EPIDEMIOLOGY: MS COMPETENCIES

In addition to the school-wide competencies, for students pursuing the Occupational and Environmental Epidemiology concentration, the following competencies apply:

- Describe and characterize the major known determinants of occupational and environmental diseases and injuries;
- Describe, locate, analyze, and interpret existing data relevant to occupational and environmental diseases and injuries;
- Explain the strengths and weaknesses of alternative epidemiology study designs used in the context of occupational and environmental epidemiological research; and
- Work within a multidisciplinary team of environmental health scientists, industrial hygienists, toxicologists, statisticians, physicians, and nurses in studying the factors involved in the etiology of occupational and environmental diseases and injuries.

HEALTH POLICY AND ADMINISTRATION: MS COMPETENCIES

For students pursuing the MS in Health Policy and Administration, there are no competencies beyond those for the School as a whole.

HEALTH POLICY AND ADMINISTRATION: MS CTS COMPETENCIES

MS CTS students will achieve the following competencies upon completion of their studies:

- Implement the basic analytical tools used by biostatisticians and epidemiologists.
- Demonstrate knowledge of the basic concepts and theories of social and behavioral sciences relevant to clinical research.
- Communicate their insights effectively.
- Write well-conceived and persuasive grant applications.

- Ensure the ethical treatment of their subjects.
- Participate in a broader multidisciplinary research community that includes basic and social scientists, as well as clinicians from other areas of clinical practice.