PUBLIC HEALTH SCIENCES: SPECIALIZATION IN HEALTH MANAGEMENT AND POLICY (PHD)

**Doctor of Philosophy in Public Health Sciences, specialization in Health Management and Policy**

Unit: School of Public Health and Information Sciences (http://louisville.edu/sphis/) (GH)

Department: Health Management and Systems Sciences (http://louisville.edu/sphis/departments/health-management-systems-sciences/(HMSS)

Program Website (http://louisville.edu/sphis/departments/hmss/academics-1/)

Academic Plan Code(s): PHSCPHDHMP

**Program Information**

The specialization in Health Management and Policy is designed to prepare graduates for careers as researchers and teachers involved in the efforts to protect and promote the health and well-being of communities and populations. It provides graduates with the knowledge and skills necessary to attain academic positions involving scholarly research and instruction in the disciplines of public health management and key policy and management positions in governmental as well as private and voluntary organizations. In addition to an in-depth understanding of the infrastructure and context of public health management, graduates of this specialization are expected to be able to identify issues and questions of importance with regard to the management of the resources of public health and to design and carry out a program of research designed to address these issues and questions. Graduates should be able to demonstrate abilities as an independent investigator as well as a team collaborator.

**Competencies**

To graduate, a student in the PhD specialization in Public Health Management and Policy must demonstrate the following competencies:

a. In-depth knowledge of the history of public health, health management, and health services research.

b. Mastery of experimental research study designs, including qualitative as well as quantitative, and the ability to identify optimal designs for specific hypotheses.

c. Ability to critically evaluate published research related to health management and health services research.

d. Expertise in one or more health services research specialties such as health policy, organization theory, long-term care policy, health economics, etc.

e. Practical knowledge of issues in research management including:
   i. Formation and leadership of multidisciplinary teams.
   ii. Staffing, budgeting, tracking.
   iii. Data quality control and data safety management.
   iv. Funding mechanisms and grantsmanship.
   v. Research ethics and regulations.
   f. Professional quality peer-review, oral and poster presentation, report, grant, and manuscript writing.

Demonstration of Competency 1 is achieved by passing the doctoral qualifying examination and by successful completion and defense of the dissertation. Demonstration of Competencies 2 through 6, inclusive, is achieved by successful development, conduct, completion, and defense of the dissertation.

**Program of Study**

The program of study incorporates a foundation of courses intricate to health services research and healthcare management as well as addressing its multidisciplinary nature. At the PhD level, this requires that students take health management and theoretical foundation, health management research methods, and HMSS PhD seminar courses, and an emphasis area related to providing in-depth knowledge related to effectively managing the resources necessary to carry out the mission of improving access, cost, and quality within the healthcare system.

The student works with his or her faculty advisor to develop a specific program of study for the student's coursework based on the required coursework and emphasis area (see Degree Requirements tab). The student's individualized program of study must be approved by the student, faculty advisor, and the HMSS PhD Committee.

**Faculty Advisor**

Upon admission to the PhD specialization, each student is assigned a faculty advisor who works with the student to develop a program of study.

**HMSS PhD Committee**

The purpose of the HMSS PhD Committee is to oversee the overall quality of doctoral education within HMSS. The committee will:

- a. Annually review the progress of PhD students within the curriculum,
- b. Manage the qualifying exam process,
- c. Approve the composition of the dissertation committee,
- d. Approve preliminary dissertation proposals to move to the proposal defense stage, and
- e. Make curriculum quality improvement recommendations to the HMSS faculty for their approval.

**Admission Requirements**

An applicant who has satisfactorily completed a Master of Public Health degree, or another relevant master degree or a health professional degree is considered for admission to the Public Health Management and Policy specialization. Applicants already holding an advanced degree are evaluated on the basis of appropriateness of previous coursework, training and experience. The graduate work by such applicants is reviewed on a case-by-case basis, and the applicant, if admitted, may be required to take additional course work prior to completing the minimum 51 credit hours required for post-master's doctoral work.

Application materials must be submitted to the Graduate School.

The minimum required documentation for full admission must include:

- Graduate application (http://louisville.edu/graduate/futurestudents/apply-materials/application/)
- Resume or curriculum vitae
- A personal statement that is a clear, substantive one-page description of your professional and research experience as it relates to your goals in public health and the PhD program.
- Official transcript for each degree
The emphasis in doctoral training goes beyond accumulating course credit. Completion of the coursework is the prelude to sitting for the qualifying examination. Successful passage of the qualifying examination allows the student to enter doctoral candidacy. A doctoral candidate must then successfully develop and present to the HMSS PhD Committee a preliminary dissertation proposal (PDP) that describes the dissertation committee, what the student wishes to accomplish with the dissertation, and an original and independent research project in the prescribed format. Once the PDP is approved by the HMSS PhD Committee, the student may schedule the proposal defense. Upon successful defense of the proposal, a student may then proceed to dissertation research.

Upon successful completion of the research, defense of the dissertation, and demonstration of the required competencies listed below, a student is awarded the PhD degree.

### Coursework

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHPH 523</td>
<td>Public Health in the United States</td>
<td>3</td>
</tr>
</tbody>
</table>

**Minimum Total Hours**: 3

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1 PHPH 523 fulfills the accreditation requirement that all graduates from the School of Public Health and Information Science receive foundational instruction in public health. The three (3) credit hours for PHPH 523 do not accrue toward the 51 credit hours required for Ph.D. degree completion. Students with a prior degree and/or coursework from a CEPH accredited school or program of public health may be relieved of this requirement, per approval of the Associate Dean for Academic Affairs.

### Required Coursework

**Health Management Foundations**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHMS 700</td>
<td>Introduction to Health Services Research</td>
<td></td>
</tr>
<tr>
<td>PHMS 715</td>
<td>Health Policy Research</td>
<td></td>
</tr>
<tr>
<td>PHMS 708</td>
<td>Population Health and Health Disparities</td>
<td></td>
</tr>
</tbody>
</table>

**Theoretical Foundations**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHMS 720</td>
<td>Organizational Theory in Health Services Research</td>
<td></td>
</tr>
<tr>
<td>PHMS 740</td>
<td>Microeconomic Theory</td>
<td></td>
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</tbody>
</table>

**Health Management Research Methods**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>SOC 618</td>
<td>Qualitative Research Methods</td>
<td></td>
</tr>
<tr>
<td>PHST 650</td>
<td>Advanced Topics in Biostatistics</td>
<td></td>
</tr>
<tr>
<td>PHMS 670</td>
<td>Statistical Data Management</td>
<td></td>
</tr>
<tr>
<td>PHMS 671</td>
<td>Statistical Analysis for Population Health</td>
<td></td>
</tr>
<tr>
<td>PHMS 645</td>
<td>Health Services Research Methods I</td>
<td></td>
</tr>
<tr>
<td>PHMS 646</td>
<td>Health Services Research Methods II</td>
<td></td>
</tr>
<tr>
<td>PHMS 725</td>
<td>Economic Evaluation in Health Care</td>
<td></td>
</tr>
</tbody>
</table>

### Seminars

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHMS 751</td>
<td>Seminar I in Public Health Management</td>
<td></td>
</tr>
<tr>
<td>PHMS 752</td>
<td>Seminar II in Public Health Management</td>
<td></td>
</tr>
<tr>
<td>PHMS 753</td>
<td>Seminar III in Public Health Management</td>
<td></td>
</tr>
</tbody>
</table>
Emphasis Area Examples

Minimum Total Hours 15 51

HMSS PhD Seminars

A student in the PhD specialization in Health Management and Policy is required to complete at least three (3) credit hours in the HMSS PhD Seminar series (PHMS 751, PHMS 752, PHMS 753). These group courses are jointly taught by the faculty of the department and are designed to provide a collegial experience that provides an opportunity to integrate learning from other courses, discuss hot topics, brainstorm about research ideas, and acquire professional skills in scientific manuscript and grant writing, oral and poster presentations, grantsmanship, and peer review.

Emphasis Area

As a part of the approved program of study, a student is able to select 15 credit hours of elective coursework that is structured around a specific area within public health. For example, students could choose to do an emphasis area in long-term care policy, population health, global health, etc. Courses may be selected from those offered within the school, other schools or colleges within the university, or from sources outside the university with permission and acceptance of credit by the school and university.

Emphasis areas need to be submitted by each student by the end of the second semester in the Program. Because some courses are only offered every other year, the student and the faculty advisor must plan the emphasis area sequence as soon as reasonably possible.

All emphasis areas need to be first approved by a student’s advisor and then presented to the HMSS PhD Committee for approval. The HMSS PhD Committee will review the chosen courses and confirm that they contribute to an overall expertise within the emphasis area designated by the student. The student must provide a written rationale for the choices of elective coursework in his or her emphasis area. These can be tweaked and changed while the student is in the program. However, these changes must also be approved by the HMSS PhD Committee.

Emphasis Area Examples

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 750</td>
<td>Program Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>LEAD 702</td>
<td>Applied Multiple Regression</td>
<td>3</td>
</tr>
<tr>
<td>SOC 675</td>
<td>Social Inequality &amp; Stratification</td>
<td>3</td>
</tr>
<tr>
<td>PHEP 627</td>
<td>Survey Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>SOC 740</td>
<td>Social Policy</td>
<td>3</td>
</tr>
<tr>
<td>PHMS 641</td>
<td>Data Mining I</td>
<td>3</td>
</tr>
<tr>
<td>PHST 620</td>
<td>Introduction to Statistical Computing</td>
<td>3</td>
</tr>
<tr>
<td>PHMS 644</td>
<td>Biomedical Foundations for Health Analytics</td>
<td>3</td>
</tr>
<tr>
<td>PHMS 638</td>
<td>Data Security &amp; Electronic Health Records</td>
<td>3</td>
</tr>
<tr>
<td>PHMS 642</td>
<td>Data Mining II</td>
<td>3</td>
</tr>
<tr>
<td>SOC 622</td>
<td>Survey Research and Design</td>
<td>3</td>
</tr>
<tr>
<td>SOC 710</td>
<td>Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>SOC 715</td>
<td>Statistics III</td>
<td>3</td>
</tr>
</tbody>
</table>

Qualifying Examination

Upon completion of the required coursework (a minimum of 30 credit hours not including 15 credit hours of emphasis area coursework) and public health management seminars (three (3) credit hours total) for the PhD, the student is eligible to sit for the qualifying examination. The components of the qualifying exam focus on the subject matter drawn from foundation courses and health management research methods. The timing and eligibility for the qualifying exams are determined by the student’s faculty advisor and the HMSS PhD Committee. Successful completion of the exam admits the student to doctoral candidacy. A student who does not successfully complete the exam may be required to take additional or remedial coursework and is allowed one opportunity to retake the exam. After admission into candidacy, the student will still be responsible for completing the additional 15 credit hours of required emphasis area coursework.

Dissertation

A dissertation is required of a candidate for the degree of Doctor of Philosophy in Public Health Sciences with a specialization in Health Management and Policy. It is to be a scholarly achievement in research and should demonstrate a thorough understanding of research techniques in health management and the ability to conduct independent research. All dissertations use a three-paper format.

Dissertation Committee

The dissertation shall be read by a reading committee, chaired by the student’s faculty advisor, and appointed by the dean of the school upon the advice of HMSS PhD Committee. This committee shall consist of at least four members and must include one representative of an external department. The dissertation must be approved by the committee and the chair of the department.

The composition of the dissertation committee must be reviewed and approved by the HMSS PhD Committee. This is done as part of the preliminary dissertation proposal (PDP) process.

Preliminary Dissertation Proposal

The Preliminary Dissertation Proposal (PDP) process involves a student (1) forming the dissertation committee; (2) writing a preliminary dissertation proposal using the PDP format; (3) the dissertation chair will present the PDP to the HMSS PhD Committee; and (4) the HMSS PhD Committee will provide feedback and approve the PDP to move to the proposal defense stage. Students may not move to the proposal defense stage without HMSS PhD Committee approval of the PDP.

The PDP uses the AHRQ (NIH) research proposal format. This is the general outline students should follow when constructing a PDP.

Total page limit: ten pages, single-spaced, or twenty pages, double-spaced

Sections

a. Coversheet and Student Letter (three pages, single-spaced, or six pages, double-spaced)
   i. Project Title
   ii. Student’s Name
   iii. List Chair and members on Dissertation Committee.
   iv. Areas of knowledge – identify areas of knowledge (content and methods) necessary for successful completion of a dissertation.
Discussed how these have been met or will be met through courses, independent study, etc.

V. Student letter – should discuss career goals, background, and interest in health services research, and the anticipated manner in which the proposed dissertation will contribute to career goals. List source of funding for research.

b. Specific Aims (one page, single spaced, or two pages, double-spaced) – Also list specific hypotheses for each aim. If desired, the overall purpose of this line of investigation may be mentioned in order to indicate the long-term importance of the specific aim being sought through this study.

c. Research Strategy (six pages, single spaced, or twelve pages, double-spaced) – Section III's format may be tailored to meet the needs of the specific study being proposed. It could be organized for the study as a whole, for each specific aim, or for each paper to be written. However, the following sub-headings usually apply (major methods should be referenced).

i. Significance – Explain the importance of the problem or critical barrier to progress in the field that the proposed project addresses. Explain how the proposed project will advance the field and improve scientific knowledge, technical capability, and/or clinical practice in one or more broad fields. Describe how the concepts, methods, technologies, treatments, services, or preventative interventions that drive this field will be changed if the proposed aims are achieved.

ii. Innovation – Explain how the application challenges and seeks to shift current research or clinical practice paradigms. Describe any novel theoretical concepts, approaches, or methodologies, instrumentation or interventions to be developed or used, and any advantage over existing methodologies, instrumentation, or interventions. Explain any refinements, improvements, or new applications of theoretical concepts, approaches or methodologies, instrumentation, or interventions.

iii. Approach - Describe the overall strategy, methodology, and analyses to be used to accomplish the specific aims of the project. Include how the data will be collected, analyzed, and interpreted as well as any resource sharing plans as appropriate. Discuss the potential difficulties and limitations of the proposed procedures and alternative approaches to achieve the aims. As part of this section, provide a tentative sequence or timetable for the project.

Use this section to provide an account of the student's or committee's preliminary studies pertinent to the proposed study, summarizing methods and preliminary findings. Relevant publications or manuscripts may be attached in the Appendix. If there are no preliminary studies, please indicate so in a sentence.

d. Protection of Human Subjects (louisville.edu/research/humansubjects (http://louisville.edu/research/humansubjects/))

e. AHRQ Priority Populations

f. References Cited

g. Appendix

i. Survey instrument, if applicable

Dissertation Proposal

Once approved by the HMSS PhD Committee, the candidate will submit a written dissertation proposal to all members of the dissertation committee. The candidate is then orally examined on the dissertation proposal at a time scheduled by the candidate in consultation with the committee chair and full dissertation committee.

Dissertation Preparation

The dissertation is to be prepared in format according to the guidelines of the Graduate School (http://louisville.edu/graduate/current-students/thesis-dissertation-information/thesis-dissertation-guidelines-1/). HMSS PhD students do a three-paper dissertation.

Three-Paper Dissertation Guidelines

Students will write a three-paper dissertation. The dissertation will include a brief introduction to the three papers and how they fit together (roughly ten pages). The research questions submitted and approved within the dissertation proposal will define the subject matter for each of the papers in the dissertation.

Prior to the dissertation defense, at least one of the three papers in the dissertation must be submitted for review to a reputable peer-reviewed journal that is agreed upon by the doctoral candidate's dissertation committee. The remaining two papers must be of high enough quality that the dissertation committee feels that they can be submitted to a reputable journal, although they do not need to be submitted prior to the dissertation defense.

Each paper must report on original scholarship and address the research questions in the dissertation proposal. One of the papers may consist of a literature synthesis which leads to specification of a conceptual framework for addressing a research question or questions.

Prior to the dissertation defense, the student must specify a target peer-reviewed journal for each and format each according to the chosen journal's formatting rules. Each paper is expected to conform to the length requirements for the chosen peer-reviewed journal (typically 25-30 pages in length). Co-authors for each paper should be acknowledged in a “Statement of Contributors” but not included as authors in the dissertation itself. They can be listed as authors when the papers are submitted for publication, but not as authors in the dissertation itself.

The following information is in the current guidelines, please review and advise if you have additional questions or concerns. The information is as follows:

Published Work

With the approval of your adviser and your thesis or dissertation committee, you may include part or all of the content of manuscripts published in or accepted for publication by scholarly journals and proceedings as chapters in your thesis or dissertation. If you choose this option, you must:

a. Be a primary author—i.e., lead author—of the articles (i.e., a person principally involved in the data selection or collection, the data analysis or interpretation, and the writing of the papers).

b. Obtain the needed copyright clearance from the publisher—i.e., a letter granting permission to include the journal article in your thesis or dissertation.

c. Include a proper citation to the work, either a footnote or a citation in the reference section of the thesis or dissertation.

d. Format the work so that it conforms to the requirements as specified in "Guidelines for the Preparation and Processing of Theses and Dissertations" (The Guidelines). In other words, the journal publication cannot simply be pasted into the thesis or dissertation in its published format.
Dissertation Approval

The dissertation is to be submitted in completed form to the chair of the department at least thirty days before the end of the term in which the candidate expects to be graduated, and the candidate is not eligible for final defense until the dissertation has been accepted by the committee and chair.

The doctoral candidate will prepare a dissertation document that will include:

- An introduction of at least ten pages that summarizes the three papers.
- The papers themselves (refer to Published Work above).
- A synthesis section at the end that addresses the implications for practice and research, in non-technical terms, to the extent not addressed in the separate papers.
- Any additional material, as appendices, that would not usually be part of a journal article (e.g. a survey instrument) but which the dissertation committee deems relevant.
- Statement of contributions: a statement specifying his/her role and those of others in selecting study questions, designing analyses, identifying appropriate methods, analyzing the data, and writing and reviewing the papers. This statement will be signed by each contributor named.
- Dissemination plan: this will specify the target peer-reviewed journal for each of the three papers. For each paper that has not been submitted for publication, the student is required to obtain a signature from a faculty member with experience publishing or reviewing for the target journal (or similar ones). The faculty member will sign a statement to the effect that in his/her opinion, the paper is potentially publishable in the journal selected (these signatures will be required by the conclusion of the dissertation defense).

Evaluation by Dissertation Committee

Dissertations will be evaluated by the dissertation committee using the following criteria:

**Extent of the student's contribution:** The committee should be persuaded that the student played the primary role in the formulation and write-up of the research for all three papers. For example, if a faculty member provided the data, selected the methodology and directed the analyses, the student's role may not meet the required standard of independence.

**Eventual publication of the three papers:** The committee should only approve the dissertation if it feels that the three papers are potentially publishable, that is, ready for submission to peer-reviewed journals. Faculty endorsement of the Dissemination Plan will be relevant for this.

**Papers published before the final defense are acceptable as described below:** In some cases, one or more of the papers may have already been accepted or published by a peer-reviewed journal at the time of the defense. While this satisfies the publication criterion, the committee will still need to evaluate the paper(s) in light of the other criteria, and the paper(s) will need to be reformatted to meet the Graduate School requirements.

The HMSS PhD Committee will allow one paper to be included in the three paper dissertation that was developed while the student was in the PhD program, prior to dissertation proposal defense. The paper published prior to the dissertation proposal defense can only be considered if approved by the chair of the student’s PhD committee and the HMSS PhD Committee.

Dissertation Submission

The following steps must be taken to submit the final copy of the dissertation electronically after oral defense and approval of the committee:

- Final document must be converted to a PDF (following the guidelines as noted above) and sent to the Graduate School and the department’s administrative assistant.
- Instructions will be provided from the Graduate School regarding submission of the final dissertation through the University of Louisville Institutional repository, ThinkIR.
- The signature page within the electronic version must have the names of your committee members typed under the signature line; the signatures cannot be scanned into the document.
- Submit a signed signature page, digital/electronic signature page (http://louisville.edu/graduate/current-students/thesis-dissertation-information/) can be found on the Graduate School web-site and the department administrative assistant.

For questions regarding preparation and submission of dissertations to the Graduate School, contact the Coordinator of Academic Services.