



## Department of Biostatistics

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# MPH in Clinical Research

The Master of Public Health (M.P.H.) degree in clinical research is primarily designed for those who are currently working in the health care professions. The program is for professionals who wish to prepare for roles in clinical research, health care research, medical database management, or statistical consulting in medical or public health settings. The Master of Public Health (M.P.H.) is oriented toward applied clinical research, outcome measurement, and applied biostatistics. **For the culminating experience, students may choose between a thesis or a comprehensive exam. Students selecting the comprehensive exam option must take an additional six (6) semester credit hours of electives in lieu of the thesis.** By the conclusion of the M.P.H. program, a student in the clinical research concentration will be able to:

1. Conduct experimental research in public health such as community trials and clinical trials in collaboration with other health professionals.
2. Conduct biostatistical research as applied to health care and public health issues.
3. Assist in the planning, development and evaluation of health systems and programs using biostatistical procedures.
4. Assist in the planning, development and evaluation of treatment outcome data collection in a broad array of health care facilities.
5. Analyze and solve a public health issue by applying statistical methodology.
6. Communicate findings of the analysis and solution of a problem of health care and public health importance of professional journals.
7. Plan and conduct independent research focusing on the analysis and solution of a problem in public health practice.

### Biostatistics Curriculum (45 SCH)

#### CORE COURSES: 15 SCH

BIOS	5210	Biostatistics for Public Health I	3 SCH
ENVR	5300	Environmental Health	3 SCH
EPID	5100	Principles of Epidemiology	3 SCH
HMAP	5210	Introduction to Health Management and Policy	3 SCH
SCBS	5110	Behavioral and Social Aspects of Public Health	3 SCH

#### REQUIRED COURSES: 12 SCH

BIOS	5215	Biostatistics for Public Health II	3 SCH
BIOS	5730	Regression Analysis	3 SCH
BIOS	5735	Analysis of Variance	3 SCH
BIOS	6775	Clinical Trials and Survival Analysis	3 SCH

**PRACTICE EXPERIENCE: 3 SCH (to be eligible for enrollment, students must complete all core courses and at least two required courses)**

SPH	5855	Public Health Practice Experience	3 SCH
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**ELECTIVE COURSES: 9 SCH for Thesis option or 15 SCH for Comprehensive Exam option**

BIOS	5700	Mathematical Statistics	3 SCH
BIOS	5720	Survey Sampling	3 SCH
BIOS	5760	Data Management	3 SCH
BIOS	5910	Independent Study in Biostatistics	1-3 SCH
BIOS	6750	Applied Categorical Data Analysis	3 SCH
BIOS	6760	Multivariate Analysis	3 SCH
BIOS	6785	Biostatistical Research and Consulting	3 SCH
EPID	5400	Applied Data Analysis in Epidemiology	3 SCH
EPID	5610	Chronic Disease Epidemiology	3 SCH
EPID	5630	Infectious Disease Epidemiology	3 SCH
HMAP	6200	Organizational Management	3 SCH
HMAP	6225	Quality Management in Long-term Care	3 SCH

- Students may substitute an elective course not on this list only with prior written approval of their advisor.
- Courses not approved as substitutes will not be applied toward the degree plan.

**CULMINATING EXPERIENCE: 0-6 SCH**

SPH	5950	Thesis	6 SCH
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Or

Comprehensive Exam (see details below)			0 SCH
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Students who select the comprehensive exam option do not register for a course in order to take the exam; however, they must complete six (6) additional semester credit hours of electives. The exam covers material from four courses: BIOS 5210: Biostatistics for Public Health I; BIOS 5215: Biostatistics for Public Health II; BIOS 5730: Regression Analysis; and BIOS 5735: Analysis of Variance. In order to take the exam, a student must have a grade point average of 3.0 or higher in graduate level biostatistics courses. The exam is given during the first week of April each year. Students are responsible for informing the Department of Biostatistics of their intentions to take the exam. A student who encounters a last minute emergency (sickness, death in the family, etc.) may appeal to the exam committee for an opportunity to take a makeup exam. Students who fail the exam may, upon recommendation of the committee, be allowed to retake a different exam. However, an opportunity for retaking the exam is not automatic.