**MASTER OF PUBLIC HEALTH (8300)**

**8300:601 Public Health Concepts (3 Credits)**
Prerequisite: Admission to the MPH program. Organizational structure, history, law, ethics, essential services, global problems, and future of public health.

**8300:602 Social & Behavioral Sciences in Public Health (3 Credits)**
Prerequisite: Admission to the MPH program. Theories of health education and promotion; interventions (communication, collaboration, and strategies); socio-cultural, diversity, and regional issues as pertains to public health.

**8300:603 Epidemiology in Public Health (3 Credits)**
Prerequisite: Admission to the MPH program. Epidemiological concepts, methods, and public health applications. Student presentations to focus on special topics such as infectious diseases, chronic conditions, etc.

**8300:604 Biostatistics in Public Health (3 Credits)**
Prerequisite: Admission to the MPH program. Biostatistics basics, statistical inference, central tendency tests, analysis of variance, regression analysis, survival analysis, and applications in public health. Epi Info and JMP statistical packages.

**8300:605 Health Services Administration in Public Health (3 Credits)**
Prerequisite: Admission to the MPH program. Management principles, planning and evaluation, grant-writing, economics, policy, data sources, and applications to public health.

**8300:606 Environmental Health Sciences in Public Health (3 Credits)**
Prerequisite: Admission to the MPH program. Air/water quality, food hygiene, sanitation, solid waste management, hazardous materials management, vector-borne disease, occupational health, legal issues, environmental hazard identification and response.

**8300:608 Public Health Practice and Issues (3 Credits)**
Prerequisite: 8200.601. Informatics, communication, diversity, cultural proficiency, biology, and ethics are applied in a public health organizational practice setting. This is a required online practice-based course.

**8300:609 Public Health Research and Evaluation (3 Credits)**
Prerequisites or Corequisites: 8300:603 and 8300:604. This course is a theoretical and applied course on research methods. Students will critically review journal articles, create research questions, conduct a literature review, employ quantitative and qualitative research methods and develop a data analysis plan. Culmination of coursework will be a research proposal and an article review.

**8300:610 Grant Writing in Public Health Practice (3 Credits)**
Prerequisite: admission to the MPH Program. Methods and techniques for writing grant proposals to fund public health programs and operations.

**8300:683 Special Topics in Public Health (1-5 Credits)**
Special topic sections will focus on specific topics of current interest in public health.

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**8300:695 Independent Study in Public Health (1-3 Credits)**
Prerequisite: permission of academic advisor and instructor. Includes research or other individual projects designed jointly by student and instructor. Covers topics not available in electives listing. (May only be taken for a maximum of 3 credits).

**8300:696 Practicum: Masters Public Health (1-3 Credits)**
Student is teamed with a faculty advisor and community preceptor(s) to work on a meaningful public health issue. For students who desire additional field experience. Credit/noncredit.

**8300:697 Capstone Project (3-6 Credits)**
A required culminating experience for MPH students to be taken after all core courses are completed. In partnership with a community organization/agency.

**8300:698 Capstone Project I (3 Credits)**
Prerequisite: 601, 602, 603 and 604. In depth assessment of public health competencies and preparation for the culminating community experience in Capstone II.

**8300:699 Capstone Project II (3 Credits)**
Prerequisite: 601, 602, 603, 604, 605, 606 and 698. A required culminating experience for MPH students completed in partnership with a community organization/agency.