**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.

8300:680. 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.