Community and Public Health

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Department website: https://www.isu.edu/publichealth/

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Public Health

The goal of public health is to improve the health of populations through planning, implementing, and evaluating programs that promote health and prevent disease and injury. Public health professionals utilize a combination of social, environmental, legislative, and economic support to improve health programs designed to create a healthier population. ISU offers a Graduate Certificate in Public Health, Graduate Certificate of Rural Health, and a Master of Public Health (MPH). Classes are offered both face-to-face and online. Students may attend classes on the Meridian or Pocatello campuses or through synchronous or asynchronous online formats.

Graduate Certificate in Public Health

The Graduate Certificate in Public Health is an 18-credit program that is designed for graduate students currently enrolled in other academic programs and working professionals who would like to expand their knowledge of public health. The Graduate Certificate in Public Health Curriculum includes courses that address the public health core knowledge areas of biostatistics, epidemiology, social and behavioral sciences, health services administration, and environmental health sciences.

Graduate Certificate in Rural Health

The Graduate Certificate in Rural Health is a 15-credit program that is designed for graduate students and health professionals who currently practice, or intend to practice, in rural settings. The certificate’s curriculum includes courses that: 1) address the public health issues in rural communities, 2) introduce students to rural health systems, and 3) give students a hands-on opportunity to partner with rural health organizations. It also offers a wide variety of electives to help students tailor their experiences to individual needs and interests.

Master of Public Health (MPH)

The MPH Program at ISU is accredited by the Council for Education in Public Health (CEPH). The 42-credit curriculum has been developed to meet the Public Health Foundational Competencies required for all CEPH-accredited programs. In addition to the traditional public health core knowledge areas of biostatistics, epidemiology, social and behavioral sciences, health services administration, and environmental health sciences, the curriculum also addresses cross-cutting and emerging public health areas. Upon completion of the MPH program, graduates will demonstrate the following competencies:

Evidence-based Approaches to Public Health

1. Apply epidemiological methods to the breadth of settings and situations in public health practice
2. Select quantitative and qualitative data collection methods appropriate for a given public health context
3. Analyze quantitative and qualitative data using biostatistics, informatics, and computer-based programming and software, as appropriate
4. Interpret results of data analysis for public health research, policy, or practice

Public Health & Health Care Systems

5. Compare the organization, structure, and function of health care, public health, and regulatory systems across national and international settings
6. Discuss the means by which structural bias, social inequities, and racism undermine health and create challenges to achieving health equity at organizational, community, and societal levels

Planning & Management to Promote Health

7. Assess population needs, assets, and capacities that affect communities’ health
8. Apply awareness of cultural values and practices to the design or implementation of public health policies or programs
9. Design a population-based policy, program, project, or intervention
10. Explain basic principles and tools of budget and resource management
11. Select methods to evaluate public health programs

Policy in Public Health

12. Discuss multiple dimensions of the policy-making process, including the roles of ethics and evidence
13. Propose strategies to identify stakeholders and build coalitions and partnerships for influencing public health outcomes
14. Advocate for political, social, or economic policies and programs that will improve health in diverse populations
15. Evaluate policies for their impact on public health and health equity

Leadership

16. Apply principles of leadership, governance, and management, which include creating a vision, empowering others, fostering collaboration, and guiding decision making
17. Apply negotiation and mediation skills to address organizational or community challenges

Communication

18. Select communication strategies for different audiences and sectors
19. Communicate audience-appropriate public health content, both in writing and through oral presentation
20. Describe the importance of cultural competence in communicating public health content

Interprofessional Practice

21. Perform effectively on interprofessional teams

Systems Thinking

22. Apply systems thinking tools to a public health issue

Master of Health Education (MHE)

The master's degree in Health Education is a 30-credit degree designed to educate students in strategies in health promotion/disease prevention. Coursework emphasizes the acquisition of skills to assess, plan, implement, and evaluate health education programs in the school, community, or worksite setting. This master's degree can be completed in as little as a year and helps prepare and advance health professionals. Both thesis and non-thesis options are available.

Master of Science in Health Informatics (MSHI)

The MSHI degree is an innovative program in Health Informatics, an emergent field at the intersection of information, people, process, and technology within healthcare organizations. The 39-credit curriculum is developed in accordance with the Health Informatics Competencies established by the American Medical Informatics Association (AMIA) and the Commission on Accreditation for Health Informatics and Information Management (CAHIIM). Courses for the MSHI program are offered online, providing the convenience of completing the degree remotely. Upon completion of the MSHI program, graduates will demonstrate competency in the following areas:

- Health
- Information Science and Technology
- Social and Behavioral Science
- Health Information Science and Technology
- Human Factors and Socio-Technical Systems
- Social and Behavioral Aspects of Health
- Social, Behavioral, and Information Science and Technology Applied to Health
- Interprofessional Collaborative Practice
- Professionalism
- Leadership

MSHI Mission

The mission of the MSHI program is to provide potential and current healthcare professionals from diverse backgrounds with knowledge and skill in three broad domains - Health, Information Science & Technology, and Social & Behavioral Science – enabling them to contribute to the practice of transforming data into information and knowledge to facilitate informed decision-making to enhance outcomes, advance medical research, empower patients, and enrich society.

Program Outcomes

- Implement and manage health informatics solutions in ways that respect the prevailing culture, organizational context, and policies relating to health
- Assess the information technology needs and resources of patients, organizations, and communities
- Design health informatics solutions that are appropriate to their context and have a high probability of being successfully deployed
- Work collaboratively across disciplines to analyze and solve key issues in Health Informatics
- Communicate complex ideas effectively both orally and in writing to different audiences and stakeholder groups

Health Educ Courses

HE 5501 Issues in Health and Wellness: 1-3 semester hours.
Contemporary health and wellness issues emphasizing education interventions and application. Topics may include: death and dying, computer technology in health, healthy aging, motivation, emergency preparedness, alternative and complementary medicine, international health. May be repeated to 6 credits with different content.

HE 5525 Patient Education Skills: 2 semester hours.
Explores the foundations and application of organizational and communication skills which promote a positive atmosphere for patient education in clinical and worksite settings.

HE 5542 Environmental Health and Health Education: 3 semester hours.
Study of a variety of issues related to protecting and preserving the environment with an emphasis on school and community educational programs. Specific, evaluated, graduate-level activities and/or performances are identified in the course syllabus

HE 5543 Substance Abuse in Community and Public Health: 3 semester hours.
Study of the physical, psychological, sociological, and environmental factors related to drug use with emphasis on school and community prevention programs. Specific, evaluated, graduate-level activities and/or performances are identified in the course syllabus.

HE 5544 Hum Diseases in Com Pblc Hlth: 3 semester hours.
Explores the underlying science of human health and disease including opportunities for promoting and protecting community health across the life course, through individual and community-level interventions and campaigns. Specific, evaluated, graduate-level activities and/or performances are identified in the course syllabus.
HE 5545 Human Sexuality in Community and Public Health: 3 semester hours.
Study of the multifaceted nature of human sexuality with an emphasis on school and community-level educational

HE 5546 Comm Strat in Comm Pblc Hlth: 3 semester hours.
Student will gain experience in the strategic use of communication and marketing tools to develop, implement, and evaluate communication programs that help people make sound health decisions and effectively manage health behaviors. Students will gain experience using all communication strategies including written and digital tools such as social media, mobile, and mass media applications. Specific, evaluated, graduate-level activities and/or performances are identified in the course syllabus.

HE 5550 Introduction to Addictions: 3 semester hours.
Introduces the four primary aspects of addiction: the physiology of drugs of abuse and chemical addiction, the assessment and diagnosis of chemical dependency, the treatment of addictive disorders, and topics focused on special populations. Specific, evaluated, graduate-level activities and/or performances are identified in the course syllabus.

HE 5552 Harmful and Illicit Substances: 3 semester hours.
Introduces students to drug classification systems, specific drugs within each classification, the psychological and physical effects, and signs and symptoms of use, abuse, dependency, overdose, and withdrawal. Specific, evaluated, graduate-level activities and/or performances are identified in the course syllabus.

HE 5553 Blood Borne Illness: 1 semester hour.
Introduces students to blood borne pathogens/infectious diseases within an addictions framework. Promotes competency and ethical responsibility in assessing client needs in regard to blood borne pathogens/infectious diseases. Specific, evaluated, graduate-level activities and/or performances are identified in the course syllabus.

HE 5554 Addiction w/in Family Systems: 3 semester hours.
Provides an overview of functional and dysfunctional families, the impact of chemical dependency on individual and family systems, and treatment modalities and appropriate referral resources. Specific, evaluated, graduate-level activities and/or performances are identified in the course syllabus.

HE 5555 Scrng and Assess of Sub Abuse: 3 semester hours.
Provides understanding of appraisal techniques within an addictions framework, promotes competency and ethical responsibility in assessing clients and enhances the ability to assess client's needs based on clinical knowledge and instrumentation. Specific, evaluated, graduate-level activities and/or performances are identified in the course syllabus.

HE 5556 Case Mgmt of Sub Abuse: 3 semester hours.
Provides understanding of appraisal techniques within an addictions framework, and promotes competency and ethical responsibilities. Specific, evaluated, graduate-level activities and/or performances are identified in the course syllabus.

HE 5557 Ethics for Addiction Cnsrlrs: 3 semester hours.
Presents case management philosophy and basic case management skills within an addictions framework and promotes competency and ethical responsibilities. Specific, evaluated, graduate-level activities and/or performances are identified in the course syllabus.

HE 5558 Group Skills for Addiction Cns: 3 semester hours.
Introduces students to group theory and practice as a treatment modality in counseling clients with chemical dependency issues. Specific, evaluated, graduate-level activities and/or performances are identified in the course syllabus.

HE 5559 Experimental Course: 1-6 semester hours.
This course is not described in the catalog. The course title and number of credits are announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated.

HE 5560 Leadership Policy and Administration: 3 semester hours.
Development of leadership and administrative skills which contribute to implementation of effective public health policies and programs. Students will learn strategic planning, facilitation techniques, communication strategies, budget development, and management. Equivalent to MPH 6605.

HE 5562 Curriculum and Supervision: 3 semester hours.
Consideration of the health education curriculum in public schools and in colleges and universities. Recent developments and current trends that influence the curriculum and supervision policies. Observation techniques, standards in judging instruction, the supervisory conference, cooperative supervision, basic foundation of curriculum construction, and lesson planning.

HE 5563 Teaching Strategies in Health: 3 semester hours.
An advanced study of strategies and innovative methods of teaching health education. Emphasis on application to a variety of educational levels.

HE 5564 Research and Writing in Health: 3 semester hours.
Application of principles of research design in the health sciences. Requires preparation of a thesis/project proposal. Equivalent to MPH 6640.

HE 5565 Health Program Planning and Evaluation: 3 semester hours.
Individual and group study of programs in the area of health. 1-3 credits. May be repeated to 6 credit hours. Graded S/U. PREREQ: Approval of advisor and/or chairperson.

HE 5566 Thesis: 1-6 semester hours.
Thesis. May be repeated. Graded S/U.

HE 5567 Masters Project in Health Education: 1-6 semester hours.
Master's Project in Health Education. May be repeated. Graded S/U.

HE 5568 Behavior Change Theory and Applications: 3 semester hours.
Provides a basic understanding of the social, emotional, and lifestyle factors related to health behavior. Strategies designed to identify barriers to behavior and to enhance the health of selected populations are examined. Equivalent to MPH 6660.

HE 5591 Health Education Workshop: 1-3 semester hours.
A critical analysis of one or more areas of health education. Limited enrollment. 1-3 credits. May be repeated up to 6 credits.

HE 5598P Prof Development Workshop: 3 semester hours.
New methods and opportunities to enhance and supplement skills. Subject to the approval of the Dean of the student's college, a maximum of eight credits earned in workshops may be applied toward a degree; students taking the courses only for personal development may choose the 0-credit option; those seeking professional development must choose a for-credit option.

HE 6605 Leadership Policy and Administration: 3 semester hours.
Development of leadership and administrative skills which contribute to implementation of effective public health policies and programs. Students will learn strategic planning, facilitation techniques, communication strategies, budget development, and management. Equivalent to MPH 6605.

HE 6620 Health Program Planning and Evaluation: 3 semester hours.
Theory and processes of assessment, planning, implementing, and evaluating health education, promotion, and disease prevention programs. Principles taught in this course will be applied to community situations. Equivalent to MPH 6620.

HE 6623 Curriculum and Supervision: 3 semester hours.
Consideration of the health education curriculum in public schools and in colleges and universities. Recent developments and current trends that influence the curriculum and supervision policies. Observation techniques, standards in judging instruction, the supervisory conference, cooperative supervision, basic foundation of curriculum construction, and lesson planning.

HE 6639 Teaching Strategies in Health: 3 semester hours.
An advanced study of strategies and innovative methods of teaching health education. Emphasis on application to a variety of educational levels.

HE 6640 Research and Writing in Health: 3 semester hours.
Application of principles of research design in the health sciences. Requires preparation of a thesis/project proposal. Equivalent to MPH 6640.

HE 6648 Problems in Health Education: 1-3 semester hours.
Individually designed study. 1-3 credits. May be repeated to 6 credit hours. Graded S/U. PREREQ: Approval of advisor and/or chairperson.

HE 6650 Thesis: 1-6 semester hours.
Thesis. May be repeated. Graded S/U.

HE 6651 Masters Project in Health Education: 1-6 semester hours.
Master's Project in Health Education. May be repeated. Graded S/U.

HE 6655 Internship: 1-3 semester hours.
Administration, supervision and operation of a community health program. Students work under the direction of a graduate faculty member and practicing administrator. May be repeated up to 3 credits. PREREQ: Approval of advisor and/or chairperson.

HE 6660 Behavior Change Theory and Applications: 3 semester hours.
Provides a basic understanding of the social, emotional, and lifestyle factors related to health behavior. Strategies designed to identify barriers to behavior and to enhance the health of selected populations are examined. Equivalent to MPH 6660.

HE 6699 Experimental Course: 1-6 semester hours.
This course is not described in the catalog. The course title and number of credits are announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated.
Health Informatics Courses

**HI 5500 U.S. Health System: 3 semester hours.**
A comprehensive overview of the U.S. Healthcare System including an introduction of health and disease, health professions, types of healthcare organizations and settings, health populations, regulation, medical terminologies, knowledge and classification systems, as well as an introduction to revenue cycle, billing, coding and reimbursement. F, S.

**HI 5520 Health Informatics: 3 semester hours.**
This course is designed to introduce students to the importance of information governance and security requirements in healthcare and the regulatory environment in which healthcare organizations operate. Issues relating to privacy and security, information governance, data quality management and business intelligence will also be covered. Students will also be exposed to interventions that can help mitigate the risks. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: HI 5520

**HI 5526 Health Data Analytics: 3 semester hours.**
This course provides an overview of the entire data analysis process from needs analysis to presentation of findings. Students will be introduced to data analytics concepts, frameworks and methodologies used to identify trends, correlations to outcome prediction used to provide meaningful recommendations. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: HI 5520.

**HI 5528 Consumer Behavior Theory & Technology: 3 semester hours.**
This course will introduce students to theories associated with consumer health behavior and the importance of these theories in developing interventions and health informatics systems to promote healthy behaviors. Determinants and factors leading to non-compliance and lack of engaging in preventative medicine and behavior change strategies will be examined.

**HI 5529 Enhancing the Patient Experience & Satisfaction: 3 semester hours.**
Patient experience and satisfaction has become a growing priority in healthcare, driven by factors such as policy healthcare regulation and reimbursement. A positive patient and family experience is key to the successful delivery of healthcare services. This course will introduce concepts of patient experience and satisfaction and the impact of patient experience on satisfaction and enhanced patient outcomes.

**HI 5530 Health Informatics Application Development: 3 semester hours.**
This course will prepare students to design, develop, test and implement Health Informatics applications and support existing applications. Concepts of computer science, information science, information systems, systems analysis and design, application development and computer programming will be covered. Students will study Human Factors, Human-Computer Interaction (HCI), User Interface Design (UCI), QA Testing & Debugging, and Dissemination and Implementation Science theory necessary for the development of effective Health Information applications.

**HI 5534 Data Visualization: 3 semester hours.**
This course will introduce data visualization and display techniques designed to enhance decision-making. Students will be introduced to software supporting visualization of data for analysis.

**HI 5540 Fundamentals of Rural Healthcare: 3 semester hours.**
A study of the fundamentals, issues and trends of rural healthcare and delivery of healthcare to underserved populations. The course will provide a conceptual foundation of rural health practices. Students will be introduced to fundamental social, economic and political determinants of health in rural settings and barriers to rural healthcare. S

**HI 5542 Rural Health Research and Community Enrichment: 3 semester hours.**
This course provides students with the knowledge and skill to conduct and assess rural healthcare research designed to enrich rural communities. Assessing the needs of rural communities, conducting robust empirical research studies, developing instruments and analysis of research data will be covered. PREREQ: HI 5540. S

**HI 6524 Electronic Health Records & Decision Support Systems: 3 semester hours.**
Introduces students to Electronic Health Records (EHRs) and Decision Support Systems (DSSs) used in healthcare. Students will learn the technical infrastructure of EHRs and DSSs, including distributed architecture, network and security design and configuration approaches to support these designs. The course will also discuss best practices for selecting, deploying and transitioning to EHRs. Students will have hands-on experience with EHR/DSS systems commensurate with different user roles across a variety of healthcare settings. S

**HI 6540 Health Informatics Internship: 3 semester hours.**
Provides the students with the opportunity to observe and perform various supervised health informatics-related activities in one or more clinical departments. 180 hours per semester required. NOTE: Some healthcare organizations may require a background check, immunizations and/or drug and alcohol testing. These items will be at the student's expense. S

**HI 6610 Qualitative Research Methods in Healthcare: 3 semester hours.**
The purpose of this course is to provide students with a working knowledge of empirical qualitative research concepts, methods and qualitative data analysis skills necessary to carry out rigorous qualitative research projects. The course will review approaches to establishing research objectives, data collection and qualitative data analysis techniques. S

**HI 6612 Scientific Writing and Publication: 3 semester hours.**
This course provides an overview of the process of publishing healthcare research findings. The course will introduce key aspects of scientific writing and preparing a research manuscript. The course will consist of didactic lectures regarding approaches and potential problems when writing specific sections of a scientific manuscript. Students will be required to prepare a manuscript and peer review other students’ manuscripts. S
HI 6620 Evaluation & Implementation Methods in Healthcare: 3 semester hours.
This course will examine health informatics as an empirical science, focusing on the evaluation of formal studies of applications of applying information technology to healthcare. After completing this course, students will be able to define and use appropriate research evaluation methods and design and conduct informatics research studies appropriate to informatics needs within various healthcare settings. PREREQ: HI 5520. S

HI 6625 Social and Behavior Aspects of Healthcare: 3 semester hours.
Introduction to the effects of social, behavioral, legal, psychological and cognitive theories, methods and models applicable to health informatics from multiple levels including individuals, social groups and society. Student will be introduced to use of social determinants of health and patient-generated data necessary to analyze problems arising from health or disease. Upon completion of the course, students will be able to recognize the implications of these problems on daily activities, recognize and/or develop practical solutions to manage these problems, and apply diverse foundational concepts to develop integrative approaches to the design, implementation and evaluation of health informatics solutions. PREREQ: HI 5500; PRE- or COREQ HI 5520. S

HI 6627 Consumer Health Informatics: 3 semester hours.
Consumer Health Informatics provides consumers with information and tools to empower patients and facilitate patient engagement. This course will provide students with knowledge and skills necessary to assess consumer health needs and resources, evaluate consumer-based informatics tools and select appropriate design, implementation and evaluation approaches for Consumer Health Informatics systems. PREREQ: HI 5520, S

HI 6631 Healthcare Database Design: 3 semester hours.
This course introduces the student to multiple healthcare databases. The student will study the design and development of multi-user relational databases, relational database management systems, stored procedures, SQL and transaction processing. The course emphasizes data security, secure design elements and architectures to ensure privacy and security of healthcare data required by the HIPAA regulation. PREREQ: HI 5530, F, S

HI 6635 Health Information Systems & Interoperability: 3 semester hours.
This course will provide an overview of concepts and frameworks associated with health information system interoperability. Students will be introduced to elements of information technology systems needed to facilitate interoperability and data exchange that enable systems within and across organizational boundaries in order to advance effective delivery of healthcare for individuals and communities. Levels of interoperability, data exchange schema, standards and frameworks such as HL7 and FHIR will be covered. PREREQ: HI 5520. F, S

HI 6636 Natural Language Processing: 3 semester hours.
This course will examine Natural Language Processing (NLP) concepts and the application of NLP methods and applications used to explore meaning of health information. This hands-on course will prepare students to develop NLP systems using linguistic knowledge, information retrieval and extraction, text corporuses and entity recognition techniques to solve health informatics problems. PREREQ: HI 5520 and HI 5530. S

HI 6637 Fundamentals of Population Health: 3 semester hours.
This course explores the broad field of population health including public health, prevention, social medicine, evidence-based medicine, health care systems, healthcare finance, global health, and social determinants of health, with an emphasis on helping students understand how systems and the environment influence health and health care delivery. S

HI 6638 Population Health Informatics: 3 semester hours.
This course will introduce students to the emerging science of Population Health Informatics and facilitate the development of skills necessary to analyze and evaluate evidence-based informatics solutions specific to population health management. Students will be exposed to terminology, key concepts and informatics systems designed to enhance health of the general population, including registries, personal health records, mobile health interventions, and telehealth applications. PREREQ: HI 5520 and HI 6637. S

HI 6641 Rural Health Informatics: 3 semester hours.
The study of using healthcare data and implementing health information systems to advance healthcare in rural settings. This course will cover technologies that promote providing and receiving quality healthcare services that serve rural patient populations. Technologies such as telehealth, telemedicine, mHealth, patient education and engagement tools, quality measure reporting and data sharing tools are covered. PREREQ: HI 5540. S

HI 6650 Health Informatics Thesis: 1-6 semester hours.
A Masters Thesis project where the student demonstrates skill and competency in Health Informatics concepts at a graduate level. This course is for students pursuing the thesis option of the MSHI degree. Deliverables of this course include a thesis written report that complies with the ISU Graduate School Thesis and Dissertation Manual as well as passing an oral examination assessed by the thesis committee comprised of qualified healthcare faculty. PREREQ: All HI core and track courses. S

HI 6660 Health Informatics Project: 3 semester hours.
A significant health informatics project where the student demonstrates skill and competency in health informatics concepts at a graduate level. This course is for students pursuing the non-thesis option of the MSHI degree. Deliverables of this course include a formal/professional written report and passing an oral examination, assessed by a committee of qualified healthcare faculty. PREREQ: All HI core and track courses. S

HI 6670 Managing Health Informatics Projects: 3 semester hours.
This course will introduce students to effective project and people management, information technology management and change management, emphasizing application of these concepts to projects within healthcare settings. Students will be introduced to tools required to complete each phase of the project management process throughout the project life cycle. Using experimental activities and case studies, students will acquire skills on the management of diverse teams consisting of individuals (clinicians and IT personnel) who bring different, but necessary skills, when implementing an improvement project. F/S

Master of Public Health Courses

MPH 5503 Health Topics: The Rural West: 3 semester hours.
Survey a variety of of health topics specific to rural communities in the West. Critically examine social, cultural, economic and political factors that shape the way health is addressed and explained. Develop a personalized career plan that addresses key take-aways from the course. F, Su

MPH 5507 Rural Health Systems: 3 semester hours.
Explore the wide variety of public health and healthcare delivery models currently operating in the rural west. Critically assess the connects and disconnects between Federally Qualified Health Centers, Critical Access Hospitals, Indian Health Services, public health departments, community-based organizations, workforce, telehealth systems and informal networks. F, Su

MPH 5511 Partnering for Rural Health: 3 semester hours.
Develop leadership and team-building skills with traditional and non-traditional partners in rural communities. Apply those skills by developing a funding proposal for a community or organization in a rural setting. S
MPH 5585 Independent Study in Public Health: 1-3 semester hours.
Individual work under staff guidance. Field and/or library research on specific health education problems of interest to majors and minors. May be repeated up to 6 credits. PREREQ: Permission of instructor.

MPH 5599 Experimental Course: 1-6 semester hours.
The content of this course is not described in the catalog. Title and number of credits are announced in the Class Schedule. Experimental courses may be offered no more than three times with the same title and content. May be repeated.

MPH 6601 Applications in Epidemiology: 3 semester hours.
Facilitates an epidemiological approach to problem solving in the health sciences through practical application of field epidemiology concepts and methods. PREREQ: Permission of instructor if student is not in the MPH program.

MPH 6602 Biostatistics: 3 semester hours.
This course will equip students with a conceptual understanding of the calculation and interpretation of inferential statistics in public health research. PREREQ: Permission of instructor if student is not in the MPH program.

MPH 6604 Social and Cultural Perspectives in Public Health: 3 semester hours.
Exploration of multicultural health beliefs, health disparities and needs of our society focusing on local cultures to develop culturally competent interventions. Learn about ethical issues, social justice, community systems, coalition building, and development of community partnerships.

MPH 6605 Leadership Policy and Administration: 3 semester hours.
Development of leadership and administrative skills which contribute to implementation of effective public health policies and programs. Students will learn strategic planning, facilitation techniques, communication strategies, budget development, and management. Equivalent to HE 6605.

MPH 6606 Environmental and Occupational Health: 3 semester hours.
Understanding the interaction of humans with their environment and the implications of human actions. Learn about assessment and control of health risks posed by chemical and biological contaminants and physical exposures (noise, heat, and radiation) in occupational and non-occupational environments.

MPH 6608 Technological Applications in Public Health: 3 semester hours.
Introduction and application of software programs utilized in public health practice. Examples include SPSS, MS Excel, GIS, EpiInfo, MS Publisher. PREREQ: MPH 6602.

MPH 6609 Seminar in Public and Community Health: 3 semester hours.
Study of topics, trends and challenges within public health.

MPH 6620 Health Program Planning and Evaluation: 3 semester hours.
Theory and processes of assessment, planning, implementing, and evaluating health education, promotion, and disease prevention programs. Principles taught in this course will be applied to community situations. Equivalent to HE 6620 and DENT 6630.

MPH 6632 Community Health: 3 semester hours.
A study of the role of health education/health promotion in the community setting. Emphasis on methods to build coalitions to address community health concerns and on the role of needs assessment.

MPH 6640 Research and Writing in Health: 3 semester hours.
Application of principles of research design in the health sciences. Requires preparation of a thesis/project proposal. Equivalent to HE 6640.

MPH 6650 Thesis: 1-6 semester hours.
Completion of a thesis/manuscript. Practical application of knowledge/skills in a public health setting. May be repeated. Graded S/U. PREREQ: MPH 6601, MPH 6602, MPH 6603, MPH 6620, and MPH 6640.