INDUSTRIAL HYGIENE (IH) COURSEWORK

School-Wide Required Courses (23 SH)

**BSTT 400 Biostatistics I** [4 SH] – Descriptive statistics, basic probability concepts, one- and two-sample statistical inference, analysis of variance, and simple linear regression. Introduction to statistical data analysis software. [MS and MPH]

**BSTT 401 Biostatistics II** [4 SH] – Simple and multiple linear regression, stepwise regression, multifactor analysis of variance and covariance, non-parametric methods, logistic regression, analysis of categorical data; extensive use of computer software. [MS only]

**CHSC 400 Public Health Concepts and Practice** [3 SH] – Introduction and overview of public health systems, including the philosophy, purpose, history, organization, functions, tools, activities, and results of public health practice. [MPH only]

**CHSC 401 Behavioral Sciences in Public Health** [3 SH] – Provides grounding in the social and behavioral sciences to analyze public health issues, including individual, community, institutional, and societal factors influencing health and illness. [MPH only]

**EOHS 400 Principles of Environmental Health Sciences** [3 SH] – Environmental influences on health: population, food, energy; community hygiene and injury control; solid/hazardous wastes, air and water pollution, radiation; industrial hygiene and occupational health. [MPH only]

**EPID 403 Introduction to Epidemiology: Principles and Methods** [3 SH] – Introduction to descriptive and analytic epidemiology, determinants of health and disease in populations, and application of epidemiologic methods to disease control; includes use of basic epidemiologic software. [MS and MPH]

**HPA 400 Principles of Management in Public Health** [3 SH] – A detailed discussion of the conceptual and theoretical foundations to the principles of management with an emphasis on public health and health care settings. [MPH only]

**IPHS 650 Field Experience in Public Health** [3 SH] – Preceptor guided field experience in public health practice through an association or public health oriented community program for students in the Master of Public Health degree program. [MPH only]

**IPHS 698 MPH Capstone Experience** [1 SH] – Individual project in public health directed toward the MPH capstone experience which is required for the degree. [MPH only]

EOHS and Industrial Hygiene Required Courses (29 SH; MPH and MS)

**EOHS 405 Environmental Calculations** [2 SH] – Quantitative problem solving techniques as applied to environmental and occupational health: dimensional analysis, mass and energy balances, trial and error solutions, data analysis, and simulation.

**EOHS 421 Fundamentals of Industrial Hygiene** [2 SH] – Recognition, evaluation, control of chemical, biological, and physical agents in the workplace. Application to preliminary surveys, measurement of exposure, and evaluation of control measures.

**EOHS 425 Evaluation and Control of Physical Agents** [4 SH] – Theory and methodology in assessing and controlling exposure to physical agents in the occupational environment.

**EOHS 426 Evaluation and Control of Chemical and Biological Agents** [4 SH] – Theory and methodology in assessing and controlling exposure to chemical and biological agents in the occupational environment.

EOHS 428 Industrial Hygiene Laboratory I [2 SH] – Detailed methods and experiments for measuring chemical, biological, and physical agents; and methods for evaluating the effectiveness of control measures.

EOHS 432 Air Quality Assessment and Management [4 SH] – Scientific theory and methods to measure and model air quality for the purpose of managing the protection of the environment and the health of the public.

EOHS 495 Environmental/Occupational Health Seminar [1 SH] – Discussions of current environmental health and occupational health topics, with presentations by students, faculty members and visiting scientists.
