Toxicology and Risk Assessment
MPH Program

Faculty:
Silvia Balbo, PhD; Lisa Peterson, PhD; Irina Stepanov, PhD; William Toscano, PhD; Elizabeth
Wattenberg, PhD

SPH Requirements:
PubH 6751 Principles of Management in Health Services Organizations (2 cr)
PubH 6320 Fundamentals of Epidemiology (3 cr)
PubH 6414 Biostatistical Literacy (3 cr)
PubH 6020 Fundamentals of Social and Behavioral Science (3 cr)

Ethics:
PubH 6741 Ethics in Public Health Professional Practice and Policy (1 cr) or
PubH 6742 Ethics in Public Health Research and Policy (1 cr) (This course will meet the research ethics training
obligation for students working as Research Assistants.)

Division Core Courses:
PubH 6103 Exposure to Environmental Hazards (2 cr)
PubH 6104 Environmental Health Effects: Introduction to Toxicology (2 cr)
PubH 6105 Environmental and Occupational Health Policy (2 cr)
PubH 7194 Environmental and Occupational Health Masters Project (3-5 cr)
PubH 7196 Field Experience in Environmental Health (3-5 cr)

Specialty Program Course Requirements:
BioC 4331/2 Biochemistry and Molecular Biology (8 cr, two semesters total)* or
BIOC 8001/2 Biochemistry: Structure, Catalysis, and Metabolism, Molecular Biology and Regulation of Biological
Processes (6 cr, two semesters total)
Phsl 5101 Human Physiology (5 cr)*
Biol 4004 Cell Biology (3 cr)*
PubH 6162 Application of Biomarkers in Public Health Research (2 cr)
PubH 6112 Environmental Health Risk Assessment: Application to Human Health Risks from Exposure to
Chemicals (2 cr)
PubH 6160 Systems Toxicology (3 cr)
PubH 8160 Advanced Toxicology (2 cr)
PubH 8161 Current Literature in Toxicology (1 cr)
Electives (selected in consultation with advisor)

Recommended Electives:
AnSc/CMB 8344 Mechanisms of Hormone Action (2 cr)
PHCL 5111 Pharmacogenomics (3 cr)
PubH 6161 Regulatory Toxicology (2 cr)
BIOC 5361 Microbial Genomics and Bioinformatics (3 cr)
PubH 6100: Topics in Environmental Health: Modeling Complex Systems (2 cr)
PubH 6074: Mass Communication and Public Health (3 cr)

TOTAL CREDITS: Minimum of 42 (including electives chosen in consultation with advisor.)

*This course requirement may be waived, with approval by the toxicology faculty, if the student has completed the equivalent course.

Credits are listed in ( ).