Toxicology and Risk Assessment
MS Program

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

General Requirements:
PubH 6320 Fundamentals of Epidemiology (3 cr)
PubH 6414 Biostatical Literacy (3 cr)
PubH 6742 Ethics in Public Health Research and Policy (1 cr)

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 cr)

Specialty Program Course Requirements:
BioC 4331/2 Biochemistry and Molecular Biology (8 cr, 2 semesters total)* or
BioC 8001/2 Biochemistry: Structure, Catalysis, and Metabolism, Molecular Biology and Regulation of Biological Processes (6 cr, 2 semesters total)
Phs1 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)

*This course requirement may be waived, with approval by the toxicology faculty, if the student has completed the equivalent course
Recommended Electives: (chosen in consultation with the advisor)
AnSC/CMB 8344 Mechanisms of Hormone Action (2 cr)
PHCL 5111 Pharmacogenomics (3 cr)
BIOC 8216 Signal Transduction and Gene Expression (3 cr)
PubH 6100 Topics in Environmental Health: Complex Systems Modeling for Population Health (2 cr)
PubH 6100 Topics in Env Health: Nanoparticle Toxicol: Mechanistic and Regulatory Issues (2 cr)
PubH 6161 Regulatory Toxicology (2 cr)
BIOC 5361 Microbial Genomics and Bioinformatics (3 cr)
PubH 6074: Mass Communication and Public Health (3 cr)

TOTAL MINIMUM CREDITS:
Plan B: 30 credits total including 3 credits of PubH 7194.

Credits are listed in ( ).