ENVIRONMENTAL SCIENCE AND STUDIES PROGRAM

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The Program
The Environmental Science and Studies Program has two primary educational objectives. One is to provide the fundamental scientific, technical and social knowledge that program graduates will need to assess, plan, evaluate and communicate environmental concerns, particularly those confronting metropolitan regions. The second is to instill the wide range of cognitive skills and content mastery that students will need to effectively analyze environmental issues, propose realistic plans for solving environmental problems at local, regional and national levels, or bring improved understanding of these issues to others through informal environmental education programs.

The requirements of the program are structured to meet these two objectives and include mathematical and scientific foundations as well as extensive interdisciplinary study related to environmental issues. The upper-level courses integrate the student’s program of study and provide hands-on practice in an environmental field. The environmental problems addressed in many classes and seminars will focus on the adjacent urban/suburban region and its impact on the surrounding environment.

Most environmental problems resist solutions from any single discipline and environmental education programs need to reflect the complexity of the environmental processes they present. Therefore the program utilizes a rigorous interdisciplinary approach. The curriculum draws upon the expertise of faculty in the areas of biology, chemistry, geology, mathematics, environmental ethics and values, public policy, science education, economics, geography, public health and social change.

The Environmental Science and Studies Program has two concentrations: Environmental Studies and Environmental Science. For information about the Environmental Science Concentration, see the Fisher College of Science and Mathematics (http://catalog.towson.edu/undergraduate/fisher-science-mathematics).

Director: Christopher Salice (Biological Sciences)

Affiliated Faculty
Professors: Rachel Burks (Physics, Astronomy & Geosciences), Ryan Casey (Chemistry), Brian Fath (Biological Sciences), Susan Gresens (Biological Sciences), Sarah Haines (Biological Sciences), L. Scott Johnson (Biological Sciences), Steven Lev (Physics, Astronomy & Geosciences), Antonette Marzotto (Political Science), John Morgan III (Geography & Environmental Planning), Jay Nelson (Biological Sciences), Thomas Rhoads (Economics), Martin Roberge (Geography & Environmental Planning), Robert Rook (History), Lev Ryzhkov (Chemistry), Stephen Scales (Philosophy & Religious Studies), Erik Scully (Biological Sciences), Richard Seigel (Biological Sciences), Jane Wolfson (Biological Sciences), Tamara Woroby (Economics)

Associate Professors: Kent Barnes (Geography & Environmental Planning), Vanessa Beauchamp (Biological Sciences), Harald Beck (Biological Sciences), Mark Bulmer (Biological Sciences), Lillian Carter (Health Science), John LaPolla (Biological Sciences), Kang Lu (Geography & Environmental Planning), James Manley (Economics), Clare Muhor (Chemistry), Karen Oslund (History), David Ownby (Chemistry), Roland Roberts (Biological Sciences), Shannon Stitzel (Chemistry), Timothy Sullivan (Economics), Jeremy Tasch (Geography & Environmental Planning), Paporn Thebpanya (Geography & Environmental Planning), Donn Worgs (Political Science)

Lecturer: Natalia Fath (Geography & Environmental Planning)

Major in Environmental Science and Studies
• Major in Environmental Science and Studies - Environmental Studies Concentration (http://catalog.towson.edu/undergraduate/liberal-arts/environmental-science-studies/environmental-studies)

Minor In Environmental Science And Studies
• Environmental Science and Studies (http://catalog.towson.edu/undergraduate/liberal-arts/environmental-science-studies/environmental-science-studies-minor)