Science of the Environment

This area focuses on the science of environmental issues and emphasizes the importance of research in the physical sciences in understanding environmental issues and in the development of policies and solutions. Students who choose this area of focus will be advised to take a series of courses in the natural sciences (chemistry, biology, and physics), mathematics, economics, urban studies and policy. With this background students will be competitive for careers and graduate programs in environmental studies, policy, management, education, law, and business.

The courses listed below satisfy the minimal requirements, and students are encouraged to complete a wide range of electives beyond these requirements and to consult with their Interdisciplinary Science academic advisor to be assured that the appropriate sequence of elective courses, internships, and senior work project are chosen for their desired post-graduate experiences.

Requirements:

LSCI 2661 Energy and Sustainability
LSCI 3009 Methods of Scientific Inquiry

Two Mathematics Courses

LMTH 2155 Mathematical Models in Nature
LMTH 2525 Statistics with SPSS

One Laboratory Course

LSCI 2011 Chemistry of the Environment

Three Foundation Courses (crossing at least two science disciplines)

Required: LSCI 2006 Chemistry of Life

Two from the list below

LSCI 2035 Science and Politics of Infectious Diseases
LSCI 2040 Genes, Environment, and Behavior
LSCI 2838 Biology of Beauty, Sex, and Death
LSCI 2600 Foundations of Physics
LSCI 2815 Ecology I: Principles of Ecology

Two Intermediate Courses

Required: LSCI 3002 Science and Environmental policy

One from the list below

LSCI 3211 Biodiversity Achieved
LSCI 4005 Nanotechnology

Two Elective Courses

At least one elective must be outside of Interdisciplinary Science. Electives are selected from the list below or in consultation with the academic advisor. The IS elective could also be from the list of intermediate courses above, but the same course cannot count for both intermediate and an elective.

LSCI 4510 Epidemics and International Responses
ULEC 2020 Introduction to Macroeconomics
ULEC 2030 Introduction to Microeconomics
LURB 3007 Urban Economies
LURB 3810 Planning the Sustainable City
LURB 3835 Food in the City: Planning, Design, and Policy
LURB 4035 Environmental Policy
LECO 3000 Sustainable Globalization
LANT 4130 Cultural Politics of Nature
LECO 4502 Political Economy of the Environment