INTERDISCIPLINARY SCIENCE

This unique curriculum seeks to democratize the sciences by exploring basic scientific and mathematical principles and concepts through public policy issues such as health equity, stem cell research, voting justice, access to clean water, climate change, and nanotechnology.. For more information about the program, visit the Lang website.

Students can study Interdisciplinary Science as a **major** (BA), a **minor** (non-Liberal Arts majors), or a **guided area of study** (Liberal Arts majors). Students are asked to complete the IS Personal Statement as they begin to explore which of these options is best suited for their academic and post-graduate plans. This Statement should be submitted to the Chair of the Interdisciplinary Science Program, and followed by an advising meeting to begin charting a course of study. Students are asked to revisit the Statement each year in consultation with their Interdisciplinary Science Academic Advisor. Not all LSCI and LMTH courses satisfy requirements and electives. Therefore, courses should be chosen carefully in consultation with an Interdisciplinary Science Academic Advisor. Students must receive grades of C or better in all courses taken to fulfill major or minor requirements.

Major

Students majoring in Interdisciplinary Science complete either a general track or a focused track in the Biology of Health, or Chemistry of the Environment.

Required Courses	**Credits**
LSCI 2661 Energy and Sustainability	4
LMTH 2155 Math Models in Nature	4
LSCI 3009 Methods of Scientific Inquiry	4
LSCI 2040 Genes, Environment, and Behavior	4
LSCI 2020 Constructing the Laws of Nature	4
LSCI 2820 Chemistry of Life	4
LSCI Foundation elective (1)	4
LMTH Math elective (1)	4
LSCI Laboratory elective (1)	4
LSCI Intermediate/Advanced electives (2)	8
LSCI Advanced elective (1)	4
Choose 1 Additional Elective: LSCI *or* LMTH Intermediate or Advanced Course)	4
Total Credits	**52**

Minor

Required Courses	**Credits**
LSCI 2700 Energy and Sustainability	4
1 LMTH Mathematics Course	4
2 LSCI Foundation Electives *. These must cross two disciplines, including Biology, Chemistry, Physics, and Environmental Health	8
1 LSCI Lecture/Laboratory Course	4

** Foundation electives should be chosen with the lab choice in mind and, as with all courses, in consultation with an academic advisor in the program. Not all 2000-level courses count as Foundation.*

Total Credits	**20**

Guided Area of Study

Students pursuing a Bachelor of Arts in Liberal Arts may not elect an academic minor. However, they may pursue a guided area of study in Interdisciplinary Science. Students interested in this option should consult with their advisor.

Sampling of Courses

Below is a sampling of Interdisciplinary Science courses. Courses may change and semesters may vary. For updated course listings with descriptions, visit the Lang website.

LSCI	2037	Foundations of Physics
LMTH	2030	Statistics with SPSS
LMTH	2040	Calculus
LSCI	2350	Global Responses to Neglected Tropical Diseases
LSCI	2300	Introduction to Urban Environmental Health
LSCI	2040	Genes, Environment, and Behavior
LMTH	2050	Math Models in Nature
LSCI	2500	Water Quality Lab
LSCI	2700	Energy and Sustainability
LSCI	2820	Chemistry of Life
LSCI	2840	Science and Politics of Infectious Disease
LSCI	3XXX	Climate Change and Health
LMTH	3006	Math Tools for Social and Natural Sciences
LSCI	3930	Science Fellows
LSCI	3020	Methods of Scientific Inquiry
LSCI	3030	Biodiversity Achieved Lab
LSCI	3037	Cell Biology
LSCI	3XXX	Intro to Epidemiology
LMTH	3056	Calculus II
LSCI	4050	Science and Politics of Cancer
LSCI	4000	The Human Genome
LSCI	4100	Nanotechnology
LSCI	4404	Epidemics and International Responses
LSCI	4501	Perspectives on Reproductive Health

Interdisciplinary Science Full-Time Faculty

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