Understanding the principles of sustainability will be essential for developing solutions to many of the most critical issues facing the world in the coming decades. Problems like global warming, energy shortages, the availability and quality of fresh water, and the need for jobs that can lift large parts of the world out of poverty without depleting vital natural resources are just a few of the complex, interrelated challenges we face in the 21st century.

Any major can be enhanced with Molloy’s new Sustainability minor, which will provide students with the background necessary to understand and tackle these challenges. Additionally, students of all majors can enhance their career prospects by learning more about these critical issues.

The list of courses for the Sustainability minor is included in this brochure. If you have questions or need additional information, please contact the History/Political Science Department Chair Dr. Lelia M. Roeckell at: 516-678-5000 Ext 6640 or the Sustainability Institute at: Ext 7562

"CEOs realize their companies cannot survive and thrive without a corporate strategy that addresses sustainability"

- Ed Weiss, Dean of Business

Minor was developed and is administered in cooperation with the Sustainability Institute, and is housed in the History and Political Science Department.
Required Courses
(Must take each of next five classes)

BIO 150 - Ecology
A study of the relationship between organisms and their environment. Field trips will be required. Two lecture hours and two lab hours per week. General prerequisite: BIO 110 or 122 or BIO 120 or BIO 126. (Satisfies general education requirements) (Offered Fall) Lab fee - $70.00. 3 credits.

BUS 307 - Sustainable Business
The green business sector is rapidly expanding, led by entrepreneurs who strive to achieve the triple bottom line of “people, planet, and profits.” Students will become familiar with the numerous types of “green businesses” that exist today and the many factors driving the increasing adoption of green business practices. The class will also look at corporate social responsibility and examples of green policies from large multinational corporations, and examine how businesses can earn profits without sacrificing the environment or human health. (Does not satisfy general education requirements) 3 credits.

SOC 360 - Sustainable Communities
Learn the process by which planning decisions are made, how they affect communities, and what the common obstacles are to sustainable growth. Review the basic principles of “smart growth” and how they are or are not being implemented on Long Island, and around the nation. Included are social justice issues relating to “sense of place” and connection to the community, the lack of affordable housing, the brain drain, classism, and suburban sprawl. (Does not satisfy general education requirements) 3 credits.

SUSTAINABILITY POLICIES & PRACTICES

Electives
(Choose one of the following four)

HIS/SOC 240 - Sustaining Societies: Historical Perspectives
An historical look at past societies that either thrived or collapsed based on decisions regarding their management of natural resources. The book Collapse: How Societies Choose to Fail or Succeed by Jared Diamond will be utilized for this course. (Does not satisfy general education requirements) 3 credits.

MAT 235 - Mathematical Modeling
This course is an introduction to mathematical modeling, a process of creating a mathematical representation of some phenomenon in order to gain a better understanding of that phenomenon. Examples range from creating models to study climate change as a result of increased levels of carbon dioxide in the atmosphere to predicting the stock market. We will be using computer software extensively to learn how to construct, interpret and validate various models (e.g. discrete dynamical and continuous stochastic systems). Prerequisite: MAT 222. 3 credits.

ETH 255 - Environmental Ethics
The aim of this course is to expand the field of moral inquiry to include not only human beings, but all living things. After examining five current eco-philosophies, the course will then focus on some of the most difficult problems in the field of environmental ethics, including overpopulation, environmental degradation and the plight of endangered species. (Satisfies ethics requirement) 3 credits.

POL 325 - Integrative Seminar: Sustainable Policies
Review major environmental policy debates of our time at the federal, state, and local levels. Learn how key environmental laws were passed, and their effects. The effectiveness of various incentives and penalties and other policies as tools in driving environmentally sustainable practices. The ethical dimension of policy implications will be explored. Students will analyze the strengths and weaknesses of environmental policies, and learn who some of the key local elected and environmental leaders are and their role in forming policies. Prerequisites: BIO 150 or ENV 101; POL 115, BUS 307 & SOC 360 (Does not satisfy general education requirements) 3 credits.

COR 338 - Spiritual and Scientific Perspectives on the Environment
This course examines religious and scientific attitudes concerning human responsibility toward the environment. Through reading in religious, theological and scientific text, the course focuses on the need for humans to understand their interrelationship with the natural world, the consequences of their decisions that affect biodiversity and their role in promoting a sustainable earth. (Satisfies core requirements) 4 credits. (A course counted towards meeting a student’s major requirements may not also count toward satisfying requirements for a minor.)

Students can take the full 18 credit minor or they can take any of the Sustainability classes individually as electives.

“To contribute to current public discourse and to compete for jobs in the future, it is vital that college graduates have a working knowledge of sustainability issues.”

Drew Bogner President