Join the first and only green chemistry master’s program in the U.S.

Use your love of science to develop safer, sustainable processes

Strengthen your communication, business, and management skills

Graduate with a one-of-a-kind degree that gives you a competitive edge

why you belong here

Are you interested in pursuing a career that lets you apply science in an industrial setting? Do you yearn for a graduate program that goes beyond environmental chemistry to focus on making industrial chemical processes that are sustainable?

If so, then Chatham University’s all new Master of Science in Green Chemistry (MSGC) program may be perfect for you. This is the first program of its kind in the U.S. and it is specifically designed to prepare students with bachelor’s degrees in biochemistry, biology, or chemistry for roles as professional science masters in the industrial world.

The MSGC curriculum is designed to build on your undergraduate degree while helping you develop critical workplace skills valued by employers. You will emerge from this program as a well-rounded science professional with a deep knowledge of green chemistry, improved communications skills, and stronger business and management skills.

what you can expect

In this program, you will delve into the philosophy of green chemistry, which encourages the design of products and processes that minimize the use and generation of hazardous substances. Instead of debating whether processes are good or bad, you will focus on improving process to reduce and prevent pollution at its source.

Your curriculum will combine elements from five sub-disciplines of chemistry – analytical chemistry, biochemistry, inorganic chemistry, organic chemistry and physical chemistry – as well as classes from our business department. Some of your classes will also be offered through our School of Sustainability and the Environment. This interdisciplinary approach ensures that you acquire not only the chemical and environmental knowledge to improve the science behind processes, but also the business, financial, and managerial skills to succeed.
what you will learn
Although some other chemistry departments include “green chemistry” as part of their departmental mission, their curricula provides little or nothing in way of workplace skills. At Chatham, we have developed graduate-level courses specifically for the MSGC degree.

This means your core courses may include everything from Green Chemistry, Catalysis, and Computational Drug Design to Accounting Essentials, Corporate Finance, and Professional Writing. Electives could include Biostatistics, Organizational Behavior, Global Marketing, and Environmental Policy, which will help you better understand the business, legal, and public policy side of the industrial processes that impact our world.

where it will take you
As a graduate of the MSGC program, you can look forward to a career in the chemical industry or related businesses, such as pharmaceuticals, enhancing effectiveness and profitability while creating chemical processes that are also sustainable over the long run. With the Pittsburgh area being home to a large chemical industry, opportunities abound for professional networking, graduate internships, and job placement after graduation.

learn more
Read faculty bios, admission requirements, and a curriculum overview at chatham.edu/MSGreenChem.

“With our longstanding dedication to science and sustainability, this new program is a perfect match for Chatham. The time is right, especially given the need in our world for sustainable processes, the demand from students for more graduate science program choices, and the creation of Chatham’s School of Sustainability and the Environment.”
— Larry Viehland, Ph.D., professor of chemistry and chair of the department of science

take note
- The Science Complex is Chatham’s 10,000 square-foot laboratory building, which features a three-story glass atrium and a modern greenhouse in addition to individual, specialized research spaces, laboratories and classrooms, a climate controlled instrument laboratory, environmental chambers, extensive computing facilities, tissue culture and microscopy equipment, a PCR, and other modern instruments.
- As the MSGC program grows, even more classes may be offered through Chatham’s School of Sustainability and the Environment, located at Eden Hall Campus, the first campus in the world to be built sustainably from the ground up. Using the latest in environmentally responsible technology, design and innovation, this 388-acre “living laboratory” integrates the academics of sustainability throughout its infrastructure, which aims to produce zero carbon emissions and more energy than it consumes.