RUTGERS SCHOOL OF ENGINEERING
Advancing Leaders to Solve Today’s Complex Engineering Challenges

Chemical & Biochemical Engineering
Master of Science Program
Rutgers School of Engineering’s Master of Science (MS) in Chemical and Biochemical Engineering program provides outstanding graduate training in chemical- and biochemical-related science and engineering. Located in the heart of New Jersey’s pharmaceutical corridor, our program’s thesis and non-thesis options combine a robust curriculum with ample opportunities for research, practical training, and forging industry connections.

CBE Curriculum Highlights
Core courses and electives—for both thesis and non-thesis degree options—are supported with close advising and mentoring by expert faculty. We offer:
- A supportive and stimulating environment that promotes students’ individual and professional growth
- Core chemical engineering courses in:
  - Advanced Chemical Engineering Thermodynamics
  - Advanced Transport Phenomena I: Momentum Transfer
  - Advanced Transport Phenomena II: Heat and Mass Transfer
  - Kinetics, Catalysis, and Reactor Design
  - Analytical Methods in Chemical and Biochemical Engineering
- Electives in a wide range of topics from multiple areas in chemical and biochemical engineering
- Practical training courses, including industrial internships
- Non-thesis MS degree option in pharmaceutical engineering that trains students in the knowledge and skills needed to succeed in next-generation pharmaceutical product design and manufacturing
- Conveniently scheduled evening courses provide maximum flexibility to working professionals
- Opportunity to take catch-up courses for students without an undergraduate degree in chemical engineering as part of the degree

Academics and Research
- Students enjoy many opportunities for research under the guidance of our expert faculty.
- Cross-disciplinary researchers from major universities come together at centers such as the Center for Structured Organic Particulate Systems (C-SOPS), which is improving how pharmaceuticals and other products are manufactured, and the Catalyst Manufacturing Center.
- Cutting-edge equipment includes Raman spectrometer with confocal microscope, gas-phase kinetic reactors, high-performance imaging systems, and thermogravimetric analyzer, along with advanced computational resources and software systems.

Master of Science Degree Requirements
- 30 credits, including 15 credits of core courses, plus:
  - Non-thesis option: 15 credits of electives
  - Thesis option: 9 credits of electives, 6 credits of thesis research

Why Rutgers Chemical and Biochemical Engineering?
- Our innovative courses and programs are designed to train academic and industry leaders.
- Our collaborative, interdisciplinary academic community is committed to transformative education and research that is ethically responsible and sustainable.
- Our active student community is engaged in cutting-edge research.
- Our accomplished faculty includes internationally recognized experts in their fields, who span departments and schools within Rutgers.

For application deadlines and more information, visit cbe.rutgers.edu/ms