School of Chemistry and Materials Science

THE BUILDING BLOCKS OF MATTER AT YOUR FINGERTIPS

SYNTHESIZE NEW MATERIALS AND PROBE THE FUNDAMENTAL PROCESSES OF LIFE

Chemistry is found in all areas of modern society. Chemical research has led to new and improved synthetic fibers, paints, adhesives, drugs, cosmetics, electronic components, lubricants, and thousands of other products. Chemists also develop processes that save energy and reduce pollution, such as improved oil refining and petrochemical processing methods. Research on the chemistry of living things spurs advances in medicine, agriculture, food processing, and other fields.

Leading graduate schools know us by our reputation for producing students who are experienced, knowledgeable, and ready to work. Many choose Ph.D. programs in chemistry, while others enter programs like biochemistry, materials science, or microbiology, or neuroscience.

The focus on experiential learning sets RIT apart. Many students partner work with private industry in practical, career-focused “co-ops,” while others hone their acumen through independent research projects.

KEY POINTS

- **Hands-On Experience**
  Chemistry and biochemistry majors practice science as professionals do — in modern laboratories led by full-time faculty members. Graduate schools and employers respect RIT’s reputation for student preparation.

- **Research Right Away**
  You needn’t wait for graduate school. Our Research Scholars Program is designed for students who want intensive research experience. Exceptional work accepted for publication in peer-reviewed journals will be published under the co-authorship of the student and faculty mentor.

- **Approved Degrees**
  The chemistry and biochemistry degrees are approved by the American Chemical Society. ACS-approved programs offer a rigorous chemistry education that gives students intellectual, experimental, and communication skills to become effective scientists.

- **Flexible Options**
  Chemistry is a fundamental science that works well with other fields of study. Our biochemistry degree is a way to seamlessly blend the fields of chemistry and biology. Elective options allow you to delve into imaging science, business, graphic arts, psychology, biology, criminal justice, computer science, engineering, environmental science, forensics, mathematics, packaging science, and physics.

CONTACT

Paul Craig, Ph.D.
School Head
RIT School of Chemistry and Materials Science
(585) 475-2497
pac8612@rit.edu
SCHOOL OF CHEMISTRY AND MATERIALS SCIENCE UNDERGRADUATE PROGRAMS

PROGRAMS

DEGREES AND OTHER OPTIONS

Bachelor of Science

BIOCHEMISTRY
Combines studies in the life and health sciences with a chemistry degree. Students take five courses in biology in addition to a typical chemistry curriculum.

CHEMISTRY
Prepares students for professional work in industry, processing and laboratory operations, research and experimental work, supervision of technical projects, and managerial positions.

Bachelor of Science + Master of Science

CHEMISTRY + MATERIALS SCIENCE
An accelerated program that allows students to complete a BS in chemistry and an MS in materials science with one additional year of graduate study.

CHEMISTRY BS/MS
At the start of year three, students enter the dual degree program and can complete a BS and MS with full thesis level research experience in a total of five years.

Minor

CHEMISTRY
A supplement to a major course of study to allow students to broaden their educational experience and diversify their skills.

Immersion

CHEMISTRY
Provides students with a general understanding of the subject of chemistry ranging from organic and analytical to inorganic and biochemistry.

SPECIAL FEATURES

Research Experience for Undergraduates
The school participates in a National Science Foundation program that brings undergraduate students to RIT for ten weeks each summer to work on a faculty-directed research project. RIT students often travel to other universities for this experience, allowing them to build professional connections.

The “Chemmunity”
Student organizations help forge social bonds and peer support among chemistry and biochemistry students. Alpha Chi Sigma, the American Chemical Society, and the American Society for Biochemistry and Molecular Biology bring RIT students together and put them in touch with alumni and other student members around the world.

State-of-the-Art Facilities
Recently-renovated laboratories, new equipment, shared resources with programs across RIT mean that chemistry and biochemistry majors have access to the tools they need to thoroughly learn their discipline.

Travel Opportunities
RIT chemistry and biochemistry majors are often invited to attend professional conferences with faculty and fellow students. Often, students are presenting papers or participating in poster sessions. Recent travels have taken students to Boston and San Francisco, and overseas to China and Switzerland.

CONTACT

Paul Craig, Ph.D.
School Head
RIT School of Chemistry and Materials Science
(585) 475-2497
pac8612@rit.edu