

Active learning. Faculty mentorship. Hands-on research. State-of-the-art instrumentation. All in a supportive, inclusive environment that students can call home. It's this combination that sets the Department of Chemistry and Biochemistry apart from other programs. Here, you'll be guided at every turn by faculty experts who will challenge you to think critically about the natural and physical world. Our student-centered curriculum features foundational laboratory instruction in each subdiscipline of chemistry, a classroom experience enhanced by technology, a developmental seminar series, and student participation in undergraduate research projects. These experiences result in graduates ready to tackle the world's most pressing problems.

B.S. Chemistry

This program is designed for students who are interested in research and advanced study after graduation or immediate employment in the chemical, pharma, or biotech industries. Students are encouraged to participate in undergraduate research with a faculty mentor.

B.S. Biochemistry

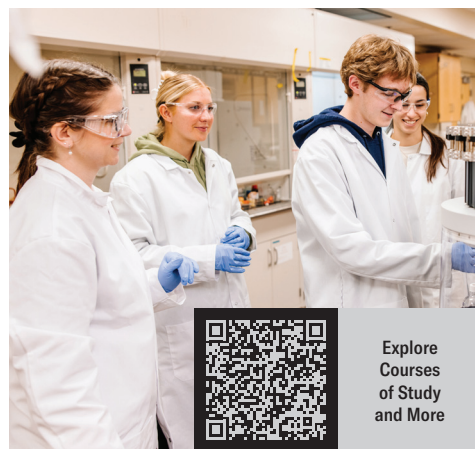
This program is excellent preparation for students who are interested in research or advanced study, employment in the pharma/biotech industry, or for those who may be interested in the health professions. Opportunities also exist to conduct original research with a faculty mentor.

B.A. Chemistry

This degree program is more flexible than our B.S. degrees, with fewer required courses in chemistry. This enables students to tailor their curriculum to meet their individual needs. Students frequently use this option if they plan to double major in another discipline, if they are interested in the health professions, or wish to combine a science degree with more focused offerings at PC, such as the Business Innovation minor.

B.A. Secondary Education - Chemistry

This degree program is designed for students who want to teach chemistry at the high school level. Courses for the B.A. in Chemistry are combined with specialized courses in Education and a student teaching component to prepare students to become effective teachers.





PLACES, PEOPLE, AND PROGRAMS

The new Science Complex features state-of-the-art classroom space for active learning. Typical chemistry courses have no more than 24 students enrolled. Our chemistry seminar series helps students develop their research and oral communication skills in technical fields. The teaching laboratories are designed specifically for inquiry-based learning. Our students are trained by faculty experts on the latest technology and instrumentation in the field, including NMR, UV-Vis, and fluorescence spectroscopy, GC and HPLC chromatography, fast kinetics, and more. Our research facilities consist of more than 3,000 square feet of space in three multi-user laboratories for organic/inorganic synthesis, analytical/physical measurement, and advanced biochemical work.

Students are eligible to participate in undergraduate research for credit as early as the first year. Funding is also available for students to conduct research during an immersive, 10-week, paid summer experience - similar to an off-campus internship. Our students have also participated in other off-campus experiences, such as the NASA Student Airborne Research Program, the Brookhaven Nuclear Chemistry Summer Program, and the RI-INBRE and RI C-AIM Summer Undergraduate Research Fellowship programs.

Our faculty members have earned terminal degrees from the top research universities in the country and are nationally recognized leaders in their field. They publish their research in leading scientific journals with PC undergraduate co-authors and often travel with their students to present at national conferences. Our faculty are devoted teacher-scholars who have chosen to pursue a career in which the prime focus is undergraduate student mentoring and development.

Selected Places of Employment

Cambridge Isotope Laboratories • Charm Science, Inc.
Emergent Biosolutions • GSK • Lifespan
Massachusetts General Hospital • Merck
National Institutes of Health
Ocean Spray Cranberries
Pfizer • Sanofi • Sonora Quest Laboratories
Vertex Pharmaceuticals • Wave Life Sciences

Selected Graduate Schools

Northwestern University
Stanford University
University of California-San Diego
University of North Carolina at Chapel Hill
University of Pennsylvania
University of Texas-Austin
University of Wisconsin-Madison
Vanderbilt University

93%

of **Chemistry and Biochemistry** graduates are employed or attending graduate school

(Providence College classes of 2019 – 2023)

chemistry.providence.edu