DEPARTMENT OF CHEMISTRY

An understanding of chemistry is critical to an understanding of life and its associated activities. Chemistry and chemical principles profoundly influence the way we live, communicate, and interact with one another, so it is little wonder that a strong background in chemistry provides a solid foundation for a variety of careers of major importance in the twenty-first century. Chemistry is uniquely positioned at the crossroad between the biological and physical sciences. By exploiting their understanding of both realms, chemists and other professionals with strong backgrounds in chemistry have made, and continue to make, major contributions to improve the human condition. Major technological and biological discoveries almost always depend on a fundamental understanding of chemistry and the pursuit of these discoveries, as a way to improve the world in which we live, drives those who seek to be a part of the process.

The Department of Chemistry offers coursework and research in all the major areas of chemistry, organized into programs leading to the degrees of Bachelor of Arts and Bachelor of Science. Both degree programs are suitable as terminal degree programs as well as for preparation for more advanced study in chemistry and related areas or as preparation for many professional programs in a variety of career fields. The BS program is more rigorous with respect to required mathematics and chemistry courses. It is particularly appropriate for those students who plan a career in the chemical industry or who intend to pursue advanced degrees in chemistry, biochemistry, chemical physics or forensics. An attractive number of free electives in this degree program allows students to take courses in interdisciplinary focus areas. The BA program offers the greatest degree of flexibility for students who see chemistry as a springboard into a related career field such as medicine, pharmacy, law, science writing, teaching or business for example. Chemistry majors are counseled by PhD chemistry faculty advisors fully familiar with the many options available in the chemistry and other departments, so as to optimize each student’s program of study to meet individual needs. The Department of Chemistry (http://chem.tamu.edu/) website provides additional information about the degree plans, advising, and career opportunities for chemistry majors.

Although students may choose a variety of electives and/or minors in either the BA or BS degree programs, the following chemistry tracks have been developed to guide students in choosing electives.

Chemistry Tracks

In addition to the traditional BS degree (which allows for optional minors) and the traditional BA degree (minor required), the Department of Chemistry offers six tracks to guide students in their selection of electives for particular career paths in biological chemistry, environmental chemistry, materials chemistry, chemical education, medicine, dentistry and pharmacy. A traditional minor requires that all minor courses must be taken from the same department and approved by the department granting the minor. These tracks provide the student an opportunity to replace a traditional minor with a broad spectrum of elective courses focused, not in a single department, but in an area of emphasis. A list of the recommended elective courses for each track may be obtained from the Office of the Undergraduate Advisor in Room 104 Chemistry Building or from the Department of Chemistry (http://chem.tamu.edu/) website.

Cooperative Education Program in Chemistry

Under suitable circumstances, chemistry majors may participate in a cooperative education program in which the student alternates periods of attendance at the University with periods of employment in industry. This year-round cooperative program of college study and industrial experience is educationally enriching and meaningful, and also has the benefit of providing substantial financial assistance to the student without unduly prolonging the completion of the BS or BA degree program.

Faculty

AI-Hashimi, Mohammed, Research Associate Professor
Chemistry
PHD, Queen Mary Westfield College, University of London, 2007

Altemose, Alicia, Lecturer
Chemistry
PHD, Penn State University, 2020

Altman, Alison, Assistant Professor
Chemistry
PHD, University of California, Berkeley, 2017

Baker, Lane, Professor
Chemistry
PHD, Texas A&M University, 2001

Bannereja, Sarbajit, Professor
Chemistry
PHD, State University of New York at Stony Brook, 2004

Bazis, Hassan S, Professor
Chemistry
PHD, University of California at Berkeley, 1995

Batteas, James D, Professor
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Begley, Tadhg P, University Distinguished Professor
Chemistry
PHD, California Institute of Technology, 1983

Bengali, Ashfaq A, Professor
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PHD, University of Minnesota, 1992

Bergbreiter, David E, Regents Professor
Chemistry
PHD, Massachusetts Institute of Technology, 1974

Bethel, Ryan D, Senior Lecturer
Chemistry
PHD, Texas A&M University, 2014
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<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Department</th>
<th>Affiliation</th>
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<tbody>
<tr>
<td>Bluemel, Janet F</td>
<td>Professor</td>
<td>Chemistry</td>
<td>Technical University of Munich, Germany, 1989</td>
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<td>Brown, Lawrence S</td>
<td>Instructional Professor</td>
<td>Chemistry</td>
<td>Princeton University, 1986</td>
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<td>Burgess, Kevin</td>
<td>Professor</td>
<td>Chemistry</td>
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<td>Cai, Yuguang</td>
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<td>Chemistry</td>
<td>Princeton University, 2003</td>
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<td>Collins, Daniel P</td>
<td>Instructional Associate Professor</td>
<td>Chemistry</td>
<td>University of South Carolina, 2012</td>
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<td>Darensbourg, Donald J</td>
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<td>Darensbourg, Marcetta</td>
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<td>Dunbar, Kim R</td>
<td>Distinguished Professor</td>
<td>Chemistry</td>
<td>Purdue University, 1984</td>
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<td>Edwards, Joshua</td>
<td>Instructional Assistant Professor</td>
<td>Chemistry</td>
<td>University of Utah, 2022</td>
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<td>Fang, Lei</td>
<td>Professor</td>
<td>Chemistry</td>
<td>Northwestern University, 2010</td>
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<td>Folden III, Charles M</td>
<td>Professor</td>
<td>Chemistry</td>
<td>University of California at Berkeley, 2004</td>
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<tr>
<td>Gabbari, Francois P</td>
<td>University Distinguished Professor</td>
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<td>Technische Universitat Munchen, Germany, 1999</td>
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<td>Gaede, Holly C</td>
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<td>Chemistry</td>
<td>University of California at Berkeley, 1995</td>
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<td>Gladysz, John A</td>
<td>Distinguished Professor</td>
<td>Chemistry</td>
<td>Stanford University, 1974</td>
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<td>Goodey, Joanna R</td>
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<td>Gutierrez Santacruz, Osvaldo</td>
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<td>Chemistry</td>
<td>University of California-Davis, 2012</td>
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<td>Hall, Michael B</td>
<td>Professor</td>
<td>Chemistry</td>
<td>University of Wisconsin, Madison, 1971</td>
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<td>Hilty, Christian B</td>
<td>Professor</td>
<td>Chemistry</td>
<td>Swiss Federal Institute of Technology Zurich, 2004</td>
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<td>Laganowsky, Arthur D</td>
<td>Associate Professor</td>
<td>Chemistry</td>
<td>University of California Los Angeles, 2011</td>
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<td>Lee, Edward</td>
<td>Senior Lecturer</td>
<td>Chemistry</td>
<td>University of Virginia at Charlottesville, 2011</td>
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<td>Lim, Soon Mi</td>
<td>Instructional Associate Professor</td>
<td>Chemistry</td>
<td>Texas A&amp;M University, 2006</td>
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<td>Lindahl, Paul A</td>
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<td>Chemistry</td>
<td>Massachusetts Institute of Technology, 1985</td>
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<td>Liu, Wenshe</td>
<td>Professor</td>
<td>Chemistry</td>
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<td>Madrahamov, Sherzod T</td>
<td>Associate Professor</td>
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<td>McCartney, Stephanie A</td>
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<td>George Washington University, 2009</td>
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<td>Michaudel, Quentin</td>
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<td>University of Wisconsin, Madison, 2011</td>
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<td>North, Simon W</td>
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<td>Ozerov, Oleg V</td>
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<td>University of Kentucky, 2000</td>
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Majors

- Bachelor of Arts in Chemistry (http://catalog.tamu.edu/undergraduate/arts-and-sciences/chemistry/ba/)
- Bachelor of Arts in Chemistry, Biological Chemistry or Medical, Dental, Pharmacy School Track (http://catalog.tamu.edu/undergraduate/arts-and-sciences/chemistry/ba-biological-chemistry-medical-dental-pharmacy-track/)
- Bachelor of Arts in Chemistry, Chemical Education Track (http://catalog.tamu.edu/undergraduate/arts-and-sciences/chemistry/ba-chemical-education-track/)
Department of Chemistry

• Bachelor of Arts in Chemistry, Environmental Chemistry Track (http://catalog.tamu.edu/undergraduate/arts-and-sciences/chemistry/ba-environmental-chemistry-track/)
• Bachelor of Science in Chemistry (http://catalog.tamu.edu/undergraduate/arts-and-sciences/chemistry/bs/)
• Bachelor of Science in Chemistry, Biological Chemistry Track (http://catalog.tamu.edu/undergraduate/arts-and-sciences/chemistry/bs-biological-chemistry-track/)
• Bachelor of Science in Chemistry, Environmental Chemistry Track (http://catalog.tamu.edu/undergraduate/arts-and-sciences/chemistry/bs-environmental-chemistry-track/)
• Bachelor of Science in Chemistry, Materials Chemistry Track (http://catalog.tamu.edu/undergraduate/arts-and-sciences/chemistry/bs-materials-chemistry-track/)
• Bachelor of Science in Chemistry and Master of Science in Chemistry, 5-Year Degree Program (http://catalog.tamu.edu/undergraduate/arts-and-sciences/chemistry/bs-ms/)

Minors

• Chemistry Minor (http://catalog.tamu.edu/undergraduate/arts-and-sciences/chemistry/minor/)