



Chemistry and Biochemistry

Department of Chemistry and Biochemistry

COLLEGE OF ARTS AND SCIENCES

KEY STRENGTHS

- Small classes in majors courses
- Opportunities for undergraduates to participate with professors in ongoing research projects leading to publications and presentations at professional meetings
- Modern, sophisticated equipment available for use by undergraduates in teaching labs and research
- 104 graduates have earned the Ph.D. or other academic doctorates; 148 graduates have earned doctoral degrees in health and other professions.
- 50 percent of all graduates have earned at least one advanced degree beyond the bachelor's degree.

DEGREES OFFERED

- Bachelor of Science
- Bachelor of Arts

MAJORS AVAILABLE

- Chemistry
- Biochemistry

CAREER OPPORTUNITIES

- Careers in research, development or management with chemical or related industries/agencies
- Healthcare professions
- Patent or corporate law
- Pharmacy
- Teaching at university or pre-college level
- Technical sales or services

STUDENT OPPORTUNITIES

On-campus research opportunities

- Robert A. Welch Foundation Undergraduate Program (academic year)
- Welch Summer Research Institute (eight-week program)

Off-campus research opportunities

- Our students participate in summer research programs at various universities including Texas Tech University, Texas A&M University, Rochester Institute of Technology, University of Virginia, The University of Kansas, Oklahoma State University and The University of Texas at Arlington.

Summer internships

- Amgen
- AstraZeneca International
- Dow Chemical Company
- Sandia National Laboratories

Departmental opportunities

- Laboratory teaching assistantships
- Research scholarships

Scholarships available

- Dow Employees Scholarship in Chemistry*
- Henry and Thelma Lee Scholarship*
- Paul C. Witt Scholarship*
- Richard Henry Scholarship*
- Tommy McCord Research Scholarship*
- Virginia Lee Scholarship*
- ACT/SAT Academic Scholarship

**All chemistry and biochemistry scholarships are awarded by the department at the start of each fall semester. Application should be made directly to the chair of the Department of Chemistry and Biochemistry.*

Please consult with your admissions counselor for details on these and other scholarships available to you.

FACILITIES

The Department of Chemistry and Biochemistry occupies lecture rooms, offices and teaching laboratories on the first two floors of the Foster Science Building.

In addition, each professor has access to a research lab with space for a maximum of four students. A room equipped with 12 desktop computers linked to the Internet is available for routine use by departmental majors.

The department possesses a wide array of chemical equipment for use in teaching and research. Major instrumentation includes an FT-nuclear magnetic resonance spectrometer, gas and liquid chromatographs, GC-mass spectrometer, UV-Vis, FT-IR, fluorescence and atomic absorption spectrometers, various pieces of electrochemical instrumentation and a differential scanning calorimeter.

DISTINGUISHED ALUMNI

Dr. Eddie Pylant, class of 1991; research scientist, Texas Instruments, Dallas, Texas.

Dr. Carlton Ash, class of 1983; research scientist, Shell Development Company, Houston, Texas.

Dr. Claudia Lewis Randolph, class of 1981; associate senior scientist, Kaman Sciences, Alexandria, Va.

Dr. Paul Neill, class of 1980; director of polymer division, Stepan Company, Chicago, Ill.

Dr. Louis Smith, class of 1959; professor of biochemistry, Baylor College of Medicine, Houston, Texas.

Dr. Clayton Heathcock, class of 1958; professor and dean, College of Chemistry, University of California at Berkeley, Berkeley, Calif.

Dr. Scott Norton, class of 1958; director and professor, division of biochemistry, University of North Texas, Denton, Texas.

Bill Knight, class of 1957; retired research scientist, Dow USA, Edmond, Okla.

Dr. Ira Hill, class of 1956; retired, former president and CEO, Whitehill Oral Technologies, Inc., Hazlet, N.J.

Dr. David Vanderpool, class of 1952; surgeon and past president of the Texas Medical Association, Dallas, Texas.

Dr. Malcolm Pruitt, class of 1941; retired vice president and director of research, Dow U.S.A., Midland, Mich.

RECENT GRADUATES

Scott Burge, class of 2007; M.D. program, The University of Texas School of Medicine, San Antonio, Texas.

Jeff Knight, class of 2007; Ph.D. program in biochemistry, The University of Texas at Austin, Austin, Texas.

Stephanie Reed, class of 2006, M.D. program, Oklahoma State University College of Osteopathic Medicine, Tulsa, Okla.

Kathleen Spivey, class of 2006, Ph.D. program, Graduate School of Biomedical Sciences, University of Texas Southwestern Medical Center at Dallas, Texas.

Bethany Gray, class of 2005, Ph.D. program, Graduate School of Biomedical Sciences, University of Texas Southwestern Medical Center at Dallas, Texas.

Nathan Gray, class of 2005; M.D. program, University of Texas Southwestern Medical Center at Dallas, Dallas, Texas.

Jamie Marr, class of 2005; D.D.S. program, The University of Texas Health Science Center, San Antonio, Texas.

Sarah Lee, class of 2005; Ph.D. program in biochemistry, Colorado State University, Fort Collins, Colo.

Connor Parker, class of 2005; Ph.D. program in materials science, University of Virginia, Charlottesville, Va.

Jordan Pierce, class of 2005; O.D. program (optometry), University of Houston, Houston, Texas.

Aaron Robison, class of 2005; Ph.D. program in physical chemistry, The University of Texas at Austin, Austin, Texas.

Kip Soimo, class of 2005; M.S. program in biomedical science, University of Texas Health Science Center, Houston, Texas.

Amy Sojourner, class of 2005; D.D.S. program, University of Texas Dental Branch, Houston, Texas.

Jeff Beers, class of 2004; M.D. program, Texas Tech University Health Sciences Center School of Medicine, Lubbock, Texas.

Douglas Johnson, class of 2004; M.D. program, University of Alabama School of Medicine, Birmingham, Ala.

Julie Anderson, class of 2003; Ph.D. program in theoretical chemistry, University of Mississippi, Oxford, Miss.

Clifton Engle, class of 2003; M.D. program, Uniformed Services University of the Health Sciences, Bethesda, Md.

Jarred Kiddoe, class of 2003; M.D. program, Duke University, Durham, N.C.

Cory Pecinovsky, class of 2002; Ph.D. program in organic chemistry, University of Colorado, Boulder, Colo.

Carolyn Billings, class of 2001; Attorney, Hughes and Luce, L.L.P., Dallas, Texas.

FACULTY ACHIEVEMENTS

- The B.S. degree in chemistry has been accredited by the Committee on Professional Training of the American Chemical Society since 1971.
- In 1981, the Dow Chemical Company established an endowed professorship in honor of Dr. Malcolm E. Pruitt, a graduate of the department and former vice president and research director for Dow USA.

- Departmental faculty members have received numerous college and university-wide teaching awards, including Honors Program Outstanding Professor, the Trustees Outstanding Teacher Award, and the Sears-Roebuck Foundation for Teaching Excellence and Campus Leadership Award.
- Since 1960, the department has received about \$3 million in grants from federal and state agencies and private foundations for the support of its teaching and research programs.
- Faculty members have published more than 80 research articles in national and international journals of chemistry since 1980.

FACULTY

Brian Cavitt, Ph.D., *assistant professor*; B.S., ACU, 1998; Ph.D., University of Southern Mississippi, 2002.

Alvie Davis, Ph.D., *senior professor*; B.S., ACU, 1955; Ph.D., The University of Texas at Austin, 1960.

Eric Hardegree, Ph.D., *professor*; B.S., ACU, 1980; M.S., ACU, 1982; Ph.D., The University of Texas at Austin, 1985.

Kim Pamplin, Ph.D., *associate professor, chair*; B.S., ACU, 1991; Ph.D., Iowa State University, 1996.

Cynthia Powell, instructor; B.S., ACU, 1981; M.S., Texas A&M University, 1984.

Gregory Powell, Ph.D., *M.E. Pruitt Distinguished Professor of Chemistry*; B.S., ACU, 1980; Ph.D., Texas A&M University, 1984.

Perry Reeves, Ph.D., *professor*; B.S., ACU, 1965; Ph.D., The University of Texas at Austin, 1969.

Autumn Sutherlin, Ph.D., *assistant professor*; B.S., Harding University, 1997; Ph.D., Purdue University, 2003.

FOR MORE INFORMATION

About the Department

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About ACU and Admissions

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