



Mathematics

Department of Mathematics
COLLEGE OF ARTS AND SCIENCES

KEY STRENGTHS

- Classes taught by experienced Christian professors
- Nationally-recognized professors in statistics, analysis and mathematics education
- Broad range of courses with in-depth experiences
- Institutional member of the Mathematical Association of America (MAA)
- Institutional member of the American Mathematical Society
- An excellent computer lab
- Classes are small, especially at the upper level. This promotes personal interaction and classroom participation.

POINTS OF EXCELLENCE

- In the past ten years, mathematics students have been accepted for graduate work at such universities as Columbia University, The University of North Carolina at Chapel Hill, University of Colorado, Texas A&M University and Baylor University.
- The department has an endowment of almost \$1 million.

DEGREES OFFERED

- Bachelor of Science
- Bachelor of Arts

MAJORS AVAILABLE

- Mathematics (B.A., B.S.)
- Mathematics – concentration in Actuarial Science
- High School Teacher Certification – Mathematics (B.S.)
- Middle School Teacher Certification – Mathematics (B.S.)

CAREER OPPORTUNITIES

- Research and university careers in mathematics, statistics, operations research, computer science, engineering and other related disciplines
- Actuarial professions
- Pre-college mathematics teaching
- Mathematics graduates are well prepared for the Law School Admissions Test (LSAT), the Graduate Management Admissions Test (GMAT) and the Graduate Record Examination (GRE).

STUDENT OPPORTUNITIES

Organizations and events

- The National Putnam Mathematics Exam competition is on the ACU campus each December.
- A problem-of-the-week contest is sponsored by the department, and prizes are awarded every semester.
- The mathematics club is a student chapter of the MAA.

Scholarships available

- Departmental scholarships – Recipients must be upper-level math majors who show potential in the mathematical field. Scholarships are awarded on a competitive basis.
- West Texas Scholars in Computer Science and Mathematics is a federally funded, National Science Foundation scholarship program. The objectives of the program are to attract, retain, graduate and place academically talented students in the technological workforce or in a graduate program in computer science or mathematics. Applicants will be ranked by their perceived interest in pursuing a career in computer science or mathematics, academic preparation, standardized test scores and financial need.
- ACT/SAT Academic Scholarships

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

FACILITIES

All classrooms are “smart” with a computer, Internet access, projector, and document camera. Additionally, one classroom has an interactive white board and another classroom has an interactive panel. The department also has a computer lab for student use and a student room where students can work together or relax.

All of the department’s computers are connected to the campus network which provides access to the Internet and other campus computing resources.

DEMOGRAPHICS

Majors in the 2006-07 school year: 62

DISTINGUISHED ALUMNI

- Cindy Boyd**, class of 1973; mathematics department, Abilene High School, Abilene, Texas.
- Dr. Tuell Green**, class of 1994; operations research, American Airlines, Dallas-Fort Worth, Texas.
- Kevin Hogg**, class of 1984; National Security Agency, Washington, D.C.
- Dr. John Keyser**, class of 1994; computer science department, Texas A&M University, College Station, Texas.
- Dr. Janice Massey**, class of 1968; division of neurology, Duke University Medical Center, Durham, N.C.

Eric Powell, class of 1988; systems engineer, Raytheon, Dallas, Texas.
Scott Seale, class of 1986; actuary, Towers Perrin, Dallas, Texas.
Dr. Ken Smith, class of 1979; The Mitre Corporation, McLean, Va.
Rob Sutphen, class of 1977; attorney, Rexene Products Corporation, Dallas, Texas.

RECENT GRADUATES

Brandon Baker, class of 1998; New York Stock Exchange, New York, N.Y.
John Ehrke, class of 2003; mathematics Ph.D. program, Baylor University, Waco, Texas.
Tracey Gust, class of 2000; statistics Ph.D. program, Arizona State University, Tempe, Ariz.
Jason Mahler, class of 2003; actuary, Watson Wyatt Worldwide, Houston, Texas.
Brandon Pope, class of 2006; industrial engineering Ph.D. program, Texas A&M University, College Station, Texas.
Anthony Todd, class of 1999; mathematics graduate program, University of Colorado, Denver, Colo.
Ryan Watkins, class of 2001; applied mathematics Ph.D. program, University of Colorado, Boulder, Colo.
Josh Wilkinson, class of 2004; mathematics Master of Teaching program, University of Northern Iowa, Cedar Falls, Iowa.

FACULTY ACHIEVEMENTS

Donna Gee, Jerita Whaley and **David Hendricks** – grant: “Developing Number Sense in K-4 Teachers,” Texas Higher Education Coordinating Board, May 2007-May 2008.
Jason Holland – presentation: “On the Optimal Order Ideals of a Boolean Algebra,” Texas Section of the MAA, Midwestern State University, Wichita Falls, Texas, April 2006.
Alexander Karabegov – published: “Fedosov’s Formal Symplectic Groupoids and Contravariant Connections,” *Journal of Geometry and Physics*, 56 (2006), 1985-2009.
Mark Riggs – published: “Bacopa monniera extract reduces amyloid levels in PSAPP mice,” *Journal of Alzheimers Disease*, 9 (2006), 243-251.
Connie H. Yarema and **Phyllis Bolin** – grant: “Developing Algebraic Habits of Mind,” Teacher Quality Grant, Texas Higher Education Coordinating Board, May 2007-May 2009.
Connie H. Yarema and **Phyllis Bolin** – presentation: “Applying Algebraic Habits of Mind in the Middle School Classroom,” National Council of Teachers of Mathematics, Atlanta, Ga., April 2007.

FACULTY

Phyllis Bolin, Ph.D., 2005, *assistant professor*; B.S.Ed., ACU, 1970; M.A.T., The University of Texas at Dallas, 1991; Ph.D., The University of Oklahoma, 2003.
John Ehrke, Ph.D., 2007, *assistant professor*; B.S., ACU, 2003; M.S., Baylor University, 2005; Ph.D., Baylor University, 2007.
Bo Green, Ph.D., 1972, *professor*; B.A., ACU, 1964; M.S., Purdue University, 1966; Ph.D., Purdue University, 1968; mathematics department, University of Missouri, 1968-72.
David Hendricks, Ph.D., 1995, *associate professor, chair*; B.S., ACU, 1987; M.S., Texas A&M University, 1988; Ph.D., Texas A&M University, 1994.
Jason Holland, Ph.D., 1998-2000, 2003, *assistant professor*; B.S.E., University of Central Arkansas, 1989; M.S., University of Arkansas, 1993; Ph.D., University of Mississippi, 1998; mathematics department, ACU, 1998-2000; mathematics department, Oklahoma Christian University, 2002-03.

Alexander Karabegov, Ph.D., 2002, *associate professor*; M.S., Moscow State University, 1981; Ph.D., Moscow State University, 1988.
Julie McQueen, M.Ed., 2000, *instructor*; B.S., ACU, 1979; M.Ed., ACU, 1986.
Mark W. Riggs, Ph.D., 1980-87, 2003, *associate professor*; B.S., ACU, 1975; M.S., Texas A&M University, 1976; Ph.D., Texas A&M University, 1981; ACU, 1980-87; senior biostatistician, Scott and White Hospital, 1987-2003.
Cheryl Schwiethale, M.S., 2004, *instructor*; B.A., Harding University, 1991; M.S., Texas A&M University-Commerce, 2002.
John Smallwood, M.A., *assistant professor*; B.S., Texas Tech University, 1961; M.A., The University of Texas at Austin, 1967.
Carol Williams, Ph.D., 1995, *professor, assistant provost for research and dean of the Graduate School*; B.A., Lipscomb University, 1969; M.A., Eastern Kentucky University, 1974; Ph.D., University of California, Santa Barbara, 1994; Wood County Schools, Parkersburg, W.Va., 1986-90; mathematics department, Pepperdine University, 1990-95.
Connie Yarema, Ed.D., 1998, *associate professor*; B.S., Texas A&M University-Commerce, 1990; M.S., Texas A&M University-Commerce, 1992; Ed.D., Texas A&M University-Commerce, 1995.

FOR MORE INFORMATION

About the Department

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