School of Natural Sciences and Mathematics

The School of Natural Sciences and Mathematics (NS&M) houses six departments, each with graduate programs: Biological Sciences (MS, PhD); Chemistry and Biochemistry (MS, PhD); Geosciences (MS, PhD); Mathematical Sciences, emphasizing Applied Mathematics and Statistics and Actuarial Science (MS, PhD); Physics (MS, PhD); and Science and Mathematics Education (Master of Arts in Teaching). In addition, there are three interdisciplinary degrees offered: Bioinformatics and Computational Biology (MS) and Geospatial Information Sciences (MS, PhD). Each program is relatively small and thus able to provide excellent graduate student - faculty contact, while maintaining a strong research program. Increasingly, departments interact with each other in research, allowing interdisciplinary efforts to flourish. A number of well-funded Research Centers and Institutes are also housed in NS&M; these allow graduate students to approach real world, cutting edge research problems while working side by side with professional research staff and internationally recognized faculty. They are: the Center for Applied Biology; the Center for Lithospheric Studies; the UT Dallas NanoTech Institute; the Center for Quantum Electronics; and the Center for Space Sciences.

Degrees Offered

**Biological Sciences**

- **Master of Science in Biotechnology** (36 semester credit hours minimum)
- **Master of Science in Molecular and Cell Biology** (36 semester credit hours minimum)
- **Doctor of Philosophy in Molecular and Cell Biology** (75 semester credit hours minimum beyond the baccalaureate degree)

**Chemistry and Biochemistry**

- **Master of Science in Chemistry** (30 semester credit hours minimum)
- **Doctor of Philosophy in Chemistry** (75 semester credit hours minimum beyond the baccalaureate degree)

**Geosciences**

- **Master of Science in Geosciences** (36 semester credit hours minimum)
- **Doctor of Philosophy in Geosciences** (75 semester credit hours minimum beyond the baccalaureate degree)

**Mathematical Sciences**

- **Master of Science in Actuarial Science** (36 semester credit hours minimum)
- **Master of Science in Mathematics - Specialization in Applied Mathematics** (36 semester credit hours minimum)
• Master of Science in Mathematics - Specialization in Engineering Mathematics (36 semester credit hours minimum)
• Master of Science in Mathematics - Specialization in Mathematics (36 hours minimum)
• Master of Science in Mathematics - Specialization in Statistics (36 semester credit hours minimum)
• Doctor of Philosophy in Mathematics - Specialization in Applied Mathematics (75 semester credit hours minimum beyond the baccalaureate degree)
• Doctor of Philosophy in Mathematics - Specialization in Statistics (75 semester credit hours minimum beyond the baccalaureate degree)

Physics

• Master of Science in Physics (30 semester credit hours minimum)
• Doctor of Philosophy in Physics (75 semester credit hours minimum beyond the baccalaureate degree)

Science and Mathematics Education

• Master of Arts in Teaching in Science Education (36 semester credit hours minimum)
• Master of Arts in Teaching in Mathematics Education (36 semester credit hours minimum)

Interdisciplinary Studies

• Master of Science in Bioinformatics and Computational Biology (36 semester credit hours minimum)
• Master of Science in Geospatial Information Sciences (30 semester credit hours minimum)
• Doctor of Philosophy in Geospatial Information Sciences (75 semester credit hours minimum beyond the baccalaureate degree)

Faculty

Distinguished Chair in Natural Sciences and Mathematics; Dean of the School of Natural Sciences and Mathematics: Bruce M. Novak

Cecil and Ida Green Distinguished Chair in Systems Biology; Professor of Chemistry: A. Dean Sherry

Distinguished Chair in Natural Sciences and Mathematics: Roderick A. Heelis

Green Distinguished Chair in Academic Leadership: B. Hobson Wildenthal


Clinical Professors: Ronald D. Dearing, Natalia Humphreys

Clinical Assistant Professor: Wenyi (Roy) Lu

Clinical Faculty: Katherine (Katie) Donaldson, Floyd Dorsey, Billy Gammons, Pamela Kirkland, Amin Lalani, James (Jim) McConnell, Megan York

Research Professor: Duck Joo (D. J.) Yang

Research Assistant Professors: Monique Duncan, Lan Guo


Academic Advisor and Senior Lecturer: Barbara A. Curry


Associate Professor Emeritus: James L. Carter

Adjunct Faculty from the Research for Mathematics of the Mexican Council and Technology: Jose Gomez-Larranaga, Adolfo (Sanchez) Valenzuela