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

**Master of Science in Actuarial Science** (36 semester credit hours minimum)

**Master of Science in Bioinformatics and Computational Biology** (36 semester credit hours minimum)

**Master of Science in Mathematics** (36 semester credit hours minimum)
- **MS in Mathematics - Specialization in Applied Mathematics**
- **MS in Mathematics - Specialization in Engineering Mathematics**
- **MS in Mathematics - Specialization in Mathematics**
- **MS in Mathematics - Specialization in Data Science**

**Master of Science in Statistics** (36 semester credit hours minimum)
- **MS in Statistics - Specialization in Statistics**
- **MS in Statistics - Specialization in Applied Statistics**
- **MS in Statistics - Specialization in Data Science**

**Doctor of Philosophy in Mathematics** (75 semester credit hours minimum beyond the baccalaureate degree)

**Doctor of Philosophy in Statistics** (75 semester credit hours 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)

Certificates Offered
- **Certificate in Data Science** (12 semester credit hours)
1. Program jointly offered by the School of Economic, Political and Policy Sciences and School of Natural Sciences and Mathematics.

2. Program jointly offered by the School of Economic, Political and Policy Sciences, Erik Jonsson School of Engineering and Computer Science, and School of Natural Sciences and Mathematics.

Faculty


Assistant Professors: Carlos Arreche, Sy Han (Steven) Chiou, Ronan Conlon, Sheena D'Arcy, Nicole De Nisco, Nikki Delk, Sheel Dodani, Michael Kolodrubetz, Jiyong Lee, Qiwei Li, Stephen McKeown, Jyoti Misra, Kaloyan Penev, Xiaoyan Shi, Sunyoung Shin, Chuan-Fa Tang, Nathan Williams, Yunan Wu

Clinical Professors: Natalia Humphreys, David Murchison

Clinical Associate Professor: Mohammad Akbar

Clinical Assistant Professor: Wenyi (Roy) Lu

Research Professor: John W. Geissman

Research Assistant Professors: Lan Guo, Li Liu

Senior Lecturers: Vinita Hajeri, Emily Hennessy, Irina Martynova, Brady McCary, Julie Sutton, Stephanie Taylor, Wen-Ho Yu

Master Teachers: Katherine (Katie) Donaldson, Floyd Dorsey, Pamela (Pam) Kirkland, Amin Lalani, James (Jim) McConnell, Megan (Kate) York

Associate Professors Emeriti: Gail A. M. Breen, Dennis L. Miller


Professors of Instruction: Anatoly Eydelzon, Manjula Foley, Bentley T. Garrett, Yuly Koshevnik, Paul Mac Alevey, Scott A. Rippel, Amandeep Sra, Uma Srikanth

Associate Professors of Instruction: Mohammad Ahsan, Kelly Aman, Mehmet Candas, Sergio Cortes, Malgorzata Dabkowska, Rabin Dahal, Sandhya R. Gavva, William R. Griffin, Changsong Li, Wen-Ju Lin, Derege Mussa, My Linh Nguyen, Jigarkumar Patel, Elizabeth Pickett, Ignacio Pujana, Yanping Qin, Ilya Sapozhnikov, Tristan Whalen, Michelle Wilson


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