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 the baccalaureate degree)
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)
- 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 Data Science (36 semester credit hours minimum)
- Master of Science in Statistics (36 semester credit hours minimum)
- Master of Science in Statistics - Specialization in Statistics (36 semester credit hours minimum)
- Master of Science in Statistics - Specialization in Applied Statistics (36 semester credit hours minimum)
- Master of Science in Statistics - Specialization in Data Science (36 semester credit hours minimum)
- 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)
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


Associate Professors: Jung-Mo Ahn, Titu Andreescu, Michael C. Biewer, Swati Biswas, Gail A. M. Breen, Thomas H. Brikowski, John G. Burr, Yan Cao, Min Chen, Jeff L. Dejong, Gregg R. Dieckmann, Yuri Gartstein, Warren J. Goux, Ernest M. Hannig, Tae Hoon Kim, Lindsay J. King, David J. Lary, Anton V. Malko, Dennis L. Miller, Homer Montgomery, Steven O. Nielsen, Paul Pantano, John W. Sibert IV, Jason D. Slinker, Mihaela C. Stefan, Mary L. Urquhart, Zhenyu Xuan, Jie Zheng

Assistant Professors: Mohammad Akbar, Maxim Arnold, Zachary Campbell, Bhargab Chattopadhyay, Lunjin Chen, Sheena D'Arcy, Nikki Delk, Sheel Dodani, Heng Du, Jeremiah J. Gassensmith, Qingwen Hu, Michael Kesden, Jung-whan (Jay) Kim, Frank Konietzchke, Jiyong Lee, Yifei Lou, Lloyd Lumata, Bing Lv, Oleg Makarenkov, Gabriele Meloni, Faruck Morcos, Tomoki Oshawa, Kelli Palmer, Fabiano Rodrigues, Xiaoyan Shi, Ronald A. Smaldone, Qiongxia (Joanne) Song, Russell Stoneback, Anh Tran, Duane D. Winkler, Hyuntae Yoo, Fan Zhang, Hejun Zhu

Clinical Professors: Natalia Humphreys, Wenyi (Roy) Lu, David Murchison

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

Research Assistant Professors: Monique Duncan, Lan Guo, Li Liu

Amandeep Sra, Uma Srikanth, Paul Stanford, Kuei Sun, Julie Sutton, Claudia Taenzler, Stephanie Taylor, Tristan Whalen, Michelle Wilson, Wen-Ho Yu


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

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