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.

NOTE> Please be advised, the degrees offered section below feeds in from a separate page. Any changes made to the degrees offered section below will not be retained. Please contact catalog@utdallas.edu with any questions.

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**

https://catalog.utdallas.edu/2018/graduate/programs/nsm
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)
  • 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

- Graduate Certificate in Data Science (12 semester credit hours)
- Teacher Education Certification

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.

NOTE: Please be advised, the faculty section below feeds in from a separate database. Any changes made to the faculty section below will not be retained. Please contact Rosa Thompson (rthompso@utdallas.edu) with any questions or changes.

Faculty

FACG> nsm-~~-ma,nsm-~~-ms,nsm-~~-phd

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, Gail A. M. Breen, Thomas H. Brikowski, John G. Burr, Yan Cao, Lunjin Chen, 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, Steven O. Nielsen, Kelli Palmer, Paul Pantano, Fabiano Rodrigues, John W. Sibert IV, Jason D. Slinker, Ronald A. Smaldone, Mary L. Urquhart, Zhenyu Xuan

**Assistant Professors:** Mohammad Akbar, Maxim Arnold, Carlos Arreche, Zachary Campbell, Bhargab Chattopadhyay, Sy Han (Steven) Chiou, Sheena D'Arcy, Nikki Delk, Sheel Dodani, Heng Du, Jeremiah J. Gassensmith, Qingwen Hu, Michael Kesden, Jung-whan (Jay) Kim, Michael Kolodrubetz, Frank Konietschke, Jiyong Lee, Yifei Lou, Lloyd Lumata, Bing Lv, Oleg Makarenkov, Gabriele Meloni, Faruck Morcos, Tomoki Ohsawa, Kaloyan Penev, Xiaoyan Shi, Sunyoung Shin, Russell Stoneback, Anh Tran, Nathan Williams, 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:** Lan Guo, Li Liu


**Associate Professor Emeritus:** James L. Carter

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