ABOUT UT HEALTH SAN ANTONIO

- 5 schools with over 1,500 faculty training scientists, physicians, dentists, nurses, and other health care professionals
- Designated as a Hispanic-serving institution
- Chief catalyst for the $37 billion biosciences and health care industry in San Antonio
- 21 different countries represented at UT Health San Antonio
- Competitive tuition for in-state students

ABOUT SAN ANTONIO

- Dynamic and multicultural city, rich in diversity
- Located at the foot of the Hill Country, home to the River Walk, Alamo, and five-time NBA World Champions, San Antonio Spurs
- 7th largest city in the United States with 300 days of sunshine per year
- Low cost of living in San Antonio
- Outdoor sculptures and artwork, art galleries, more than 25 museums, and many cultural arts festivals

Ramaswamy Sharma, Ph.D.
Chair, Committee on Graduate Studies
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For more information, visit: uthscsa.edu/csa/grad-ms.asp
OVERVIEW OF PROGRAM

The Graduate Program in Cell Systems & Anatomy provides a rewarding opportunity for students wishing to pursue a Master’s Degree in preparation for a fulfilling career in biomedicine. Our program has two tracks: an Anatomical Sciences Track and a Biotechnology Track. Students may select either track to obtain their Master’s degree. A minimum of 30 semester hours of graduate credit is required for the Master’s degree.

The Anatomical Sciences track offers in-depth coursework in micro- and macro-anatomy including Inter-Professional Human Gross Anatomy, Anatomy Practicum, Neuroanatomy, Histology, Presentation Skills and Supervised Teaching in Medical or Dental Gross Anatomy classes.

Students are also required to participate in Anatomy Grand Rounds and complete a thesis project under the supervision of a mentor. These projects may include the design, development and evaluation of a 3D model of an anatomical structure, identification and analysis of anatomical variations or bench research projects involving histopathology.

ADMISSION REQUIREMENTS

- Bachelor’s degree in a Natural Science major with coursework that includes general biology, chemistry, physics, and calculus
- Undergraduate grade point average of at least 3.0 (on a 4.0 scale)
- Minimum score of 308 in the GRE (verbal + quantitative) is preferred

ANATOMICAL SCIENCES TRACK

- Interdisciplinary human gross anatomy course with full cadaveric dissection
- Unique opportunities for teaching and tutoring medical, dental and other health professional students
- Highly acclaimed teaching faculty with many awards including the prestigious Piper Professorships, UT System Regents Outstanding Teaching Awards, and UT Health San Antonio Presidential Teaching Excellence Awards
- Graduates of the program enrolled in medical or dental schools

Learning anatomy is really important because you are able to understand any deviation from the norm. I think Anatomy is the foundation for learning medicine; without a solid base in anatomy as a physician or clinician, you would be lost.

- Shalea Francois
  Student, Masters of Science in Cell Systems & Anatomy
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The Biotechnology track offers in-depth coursework on Eucaryotic Cell Biology and Molecular Biology, Introduction to Research, Methods in Cell Biology, Experimental Design and Data Analysis, and Rigor and Reproducibility in Research. Discussion of journal articles and presentation of posters at departmental retreats offer more opportunities for enhancing critical thinking and presentation skills.

Students are also required to complete research rotations in at least two different laboratories and select a primary mentor from the department for supervising their thesis project.

ADMISSION REQUIREMENTS

- Bachelor’s degree in a Natural Science major with coursework that includes general biology, chemistry, physics, and calculus
- Undergraduate grade point average of at least 3.0 (on a 4.0 scale)
- Minimum score of 308 in the GRE (verbal + quantitative) is preferred

BIOTECHNOLOGY TRACK

- Cutting-edge research training available, including Next-Gen sequencing, computational biology (bioinformatics) and optical imaging in vitro and in vivo
- Faculty with state-of-the-art laboratories conducting exciting basic science and translational research in Aging, Cancer Biology, Cell & Organelle Biology, DNA Repair and Mutagenesis, Neurobiology and Stem Cells
- Highly acclaimed teaching faculty with many awards including the prestigious Piper Professorships, UT System Regents Outstanding Teaching Awards, and UT Health San Antonio Presidential Teaching Excellence Awards
- Many of our alumni working at major biotech/pharma companies or academic institutions

“The Biotechnology track provided me with all the tools I needed to get into medical research. By using cutting edge science, we can develop new tools to study, diagnose, and treat difficult diseases.”

- Michael H. Nipper
Student, Master of Science in Cell Systems & Anatomy

You can find more information about each faculty member by going to: uthscsa.edu/csa/faculty.asp