

BioMed Certificate in Biomedical Sciences Academic Program for Post-Baccalaureate Students

THE PROGRAM

The **Certificate in Biomedical Sciences Program** at The University of Texas at Dallas offers students the opportunity to further their undergraduate education by taking science coursework focusing on the integrative scientific study of biological issues related to health and medicine. Many students seek this coursework in order to prepare for a career in one of the health professions. The program is a flexible post-baccalaureate certificate program offered through the UT Dallas School of Natural Sciences and Mathematics. Because the program is flexible, it can address the needs of a variety of students who have previously completed a bachelor's degree:

- second career students,
- educationally underprepared recent graduates,
- students in need of enhancing their academic record.

The UT Dallas Certificate Program can accommodate part-time students, full-time students, non-science students needing to take all the pre-requisite courses, as well as those with some science background who need to add more advanced coursework to their record. The program is designed to aid a variety of students interested in either medical or dental school or other health professions programs such as pharmacy, optometry, physician assistant, physical therapy and public health.

CERTIFICATE PROGRAM LEADERSHIP

The Health Professions Advising Center and the Certificate in Biomedical Sciences Program are directed by **Dr. Scott Wright** who also serves as Associate Dean of Undergraduate Education and Professor.

Dr. Wright has worked with students in higher education for more than twenty years and has advised medical and pre-health students for almost fifteen years. He understands the desires, needs and fears of non-traditional pre-health students.

For ten years, Dr. Wright was the Director of Admissions at UT Southwestern Medical School where he currently serves as Adjunct Assistant Professor of Medical Ethics.

Two other experienced HPAC advisors are **Mr. Doyen Rainey** and **Ms. Marti Weaver**. Health professions students at UT Dallas are also served by HPAC consultant **Barbara Waller, M.D.**, retired Associate Dean for Student Affairs at UT Southwestern Medical School.

WHY UT DALLAS?

The University of Texas at Dallas is uniquely prepared to offer the **Certificate in Biomedical Science** and to prepare students for their future.

- UT Dallas was founded as a scientific research institution and has continued to be a leader in the areas of engineering, computer science, and the natural and physical sciences.
- The reputation of UT Dallas among medical and dental schools in Texas (and beyond) is very strong. Regularly, medical and dental schools recommend UT Dallas to aspiring students for post-baccalaureate training in the sciences and preparation for admission to their programs.
- The Green Fellowship Program, a collaboration with UT Southwestern Medical Center, recognizes the strong science education that students receive at UT Dallas. The fellowship is a semester-long intensive research training experience for undergraduates in one of several biomedical science fields.
- This program is endorsed by UT Southwestern, UT Houston, and UT San Antonio medical schools and TAMUHSC Baylor College of Dentistry as an excellent non-traditional way to prepare for medical or dental school for those who have already received a bachelor's degree. The program represents an opportunity for students to demonstrate their ability to perform well academically.



Health Professions Advising Center

The Health Professions Advising Center (HPAC) offers personalized pre-health advising through individual appointments and daily drop-in hours. HPAC also sponsors many seminars throughout the year on topics such as interviewing skills, personal statement writing, application completion, and stress management.

HPAC has a resource room/student lounge which can be used as a quiet study place. It is also available for study groups and student organization meetings.

Free tutoring is available through HPAC whereby students can find additional assistance on most pre-health focused courses.

In addition, HPAC offers a formal Health Professions Evaluation process for current applicants. Medical and dental schools prefer this type of summary evaluation.





**The University of
Texas at Dallas**

**Health Professions
Advising Center**

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PROGRAM ADMISSION

Students interested in enrolling in the **Certificate in Biomedical Sciences Program** must meet the following requirements.

- Gained admission into the University as an undergraduate transfer student,
- Earned a bachelor's degree from a regionally accredited U.S. college or university,
- Exhibited clear motivation for a career in a health profession as evidenced in a written personal statement and/or through an interview with a UTD pre-health advisor.

Application for the program is through the ApplyTexas online application at utdallas.edu/admissions. Applicants should apply as (1) Transfer, Undergraduate students in the (2) School of Natural Science and Mathematics and select the (3) Undergraduate Certificate in Biomedical Sciences.

PROGRAM REQUIREMENTS

Requirements for completion of the Certificate in Biomedical Sciences Program include:

- A minimum of 24 post-baccalaureate undergraduate credit hours of approved courses at UT Dallas (see approved courses list)
- Of the 24 credit hours completed toward the certificate, a minimum of 9 credit hours must be upper-division biological science courses
- Completion of HLTH 3100: the Pre-Health Professional Development course
- A UT Dallas post-baccalaureate grade point average of at least 3.30
- Evidence of at least 50 clock hours of approved clinical and/or research exposure activities previously approved by the Program Director and documented according to program standards
- Recommendation by the UT Dallas Health Professions Advisory Committee

PROGRAM COST

Tuition for full time students (12 to 15 credit hours) for the fall 2009 semester is approximately:

Texas residents	\$4,000 to 4,500
Non-Texas residents	\$8,000 to 9,600

There are no costs related to the program outside of tuition, necessary course-related fees, and applicable University wide fees. The most current tuition and fee structure can be found at utdallas.edu/finance.

COURSES OF STUDY

A variety of classes are available to students depending on their particular needs and previous experience in undergraduate science courses. Program students enroll in traditional courses alongside other undergraduate students and with the same faculty members. This structure is important since medical and dental schools understand and appreciate the rigor of the UT Dallas undergraduate curriculum and know how to interpret a student's performance within that curriculum.

General Chemistry I and II
General Chemistry I and II labs
Organic Chemistry I and II
Organic Chemistry I and II labs

General Physics I and II
General Physics I and II labs

Calculus or Applied Calculus
Statistics

Modern Biology I and II
Modern Biology lab
Classical and Molecular Genetics
Eukaryotic Molecular and
Cellular Biology
Biochemistry I and II
General Microbiology
Anatomy and Physiology I and II
Immunobiology
Medical Microbiology
Molecular Biology of HIV/AIDS
Molecular Biology of Cancer
Molecular Biology of Hematology

Neuroanatomy
Neurophysiology
Neuropharmacology
Integrative Neuroscience
Cellular Neuroscience
Medical Neuroscience

Relevant elective courses are also available but do not apply to the number of credit hours required for certificate completion. These courses include:

Medical Ethics
Philosophy of Medicine
Medical Spanish
Law and Medicine
Bones, Bodies and Disease
Forensic Biology
Psychology of Health and Illness
Healthcare Management
Economics of Healthcare

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