Certificate in Biomedical Sciences

The post-baccalaureate Certificate in Biomedical Sciences (CBioMed) is offered through the School of Natural Sciences and Mathematics (NSM) and administered through the Health Professions Advising Center (HPAC). A rigorous curriculum allows students to further develop their scientific knowledge in preparation for application to schools of medicine, dentistry, or podiatry. Program requirements also include clinical, community service and/or research hours, independent from course credit and initiated by the student. Certificate students access HPAC services receiving assistance with the application process.

Application for the program is through the the ApplyTexas online application at www.utdallas.edu/admissions. Applicants apply as "Transfer, Undergraduate" students in the School of Natural Sciences and Mathematics, and select the "Undergraduate Certificate in Biomedical Sciences." A supplemental application, as well as the booklet "Information and Program Guidelines," can be found on the HPAC webpage. Please contact the HPAC office for deadlines in submitting the supplemental application.

Admission Requirements

Prospective students interested in enrolling in the Certificate in Biomedical Sciences program will be considered for admission based on the following standards:

- met University admission requirements established for transfer undergraduate students;
- earned a bachelor's degree from a U.S. college or university;
- exhibited clear motivation for a career in medicine, dentistry, or podiatry (as evidenced by previous coursework, clinical exposure and/or a realistic plan for preparation);
- completed the CBioMed program supplemental application; and,
- earned an undergraduate grade point average (GPA) of at least 2.750.

Note: Competitive applicants for the CBioMed program should have completed, or be in the process of completing, an introductory sequence - for science majors - of chemistry, biology and physics.

Program Requirements

The certificate program is designed for students who are preparing for entrance into a medical, dental or podiatry school.

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

- A minimum of 24 post-baccalaureate undergraduate semester credit hours of approved courses at UT Dallas.
Of the 24 semester credit hours completed toward the certificate, a minimum of 9 semester credit hours must be HPAC advisor approved upper-division science courses.

In addition to the science courses, students must complete at least one course with content covering health disparities, professionalism, and/or ethics.

Completion of all admission prerequisite courses for the health profession schools to which the student will be applying.

A UT Dallas post-baccalaureate GPA of at least 3.300.

Evidence of at least 50 clock hours of approved clinical, community service and/or research activities documented according to program standards.

Completion of the Health Professions Evaluation (HPE) Process and recommendation by the HPAC Advisory Committee.

Curriculum

A variety of classes are available to students, depending on their particular needs and previous experience in undergraduate science courses. Students are required to work with an HPAC advisor in order to plan their curriculum for the program. HPAC advisors work with students to develop a curricular plan that is based on their individual circumstances, including past academic history and career goals. Courses that may be included to fulfill the certificate program requirements are listed below. Not all courses are taught every semester.

Biology

- **BIOL 3101** Classic and Molecular Genetics Workshop
- **BIOL 3102** Eukaryotic Molecular and Cell Biology Workshop
- **BIOL 3161** Biochemistry Workshop I
- **BIOL 3162** Biochemistry Workshop II
- **BIOL 3301** Classical and Molecular Genetics
- **BIOL 3302** Eukaryotic Molecular and Cell Biology
- **BIOL 3305** Evolutionary Analysis
- **BIOL 3318** Forensic Biology
- **BIOL 3335** Microbial Physiology
- **BIOL 3336** Protein and Nucleic Acid Structure
- **BIOL 3361** Biochemistry I
- **BIOL 3362** Biochemistry II
- **BIOL 3370** Exercise Physiology
NSC 4366 Neuroanatomy
NSC 4367 Developmental Neurobiology

Physics
PHYS 3317 Physics of the Human Body
PHYS 3330 Numerical Methods in Physics and Computational Techniques
PHYS 4381 Space Science

Statistics
STAT 2332 Introductory Statistics for Life Sciences

Other Disciplines
ISIS 2308 Bones, Bodies, and Disease
ISIS 3309 Dental Anthropology
GEOG 3357 Spatial Dimensions of Health and Disease
GEOS 2324 Energy, the Environment and Human Health

All certificate students are required to take, as a part of their program curriculum, a class covering topics in health disparities, professionalism and/or ethics.

Elective Courses
ECON 3330 Economics of Health
GEOG 3357 Spatial Dimensions of Health and Disease
GST 4325 Motherhood and the Technological Womb
HIST 3328 History and Philosophy of Science and Medicine
HLTH 1100 Career Exploration for the Health Professions
HLTH 1322 Human Nutrition
HLTH 3101 Medical Terminology
HLTH 3300 Pre-Health Professional Development
HLTH 3305 The U.S. Healthcare System
HLTH 4380 Special Topics in Healthcare
HMGT 3301 Introduction to Healthcare Management
ISIS 2308 Bones, Bodies, and Disease
PHIL 4320 Medical Ethics
PHIL 4321 Philosophy of Medicine
PSCI 4365 Law and Medicine
PSY 2301 Introduction to Psychology
PSY 4346 Human Sexuality
PSY 4328 Health Psychology
SOC 1301 Introduction to Sociology
SOC 4369 Public Health and Society
SOC 4371 Mental Health and Illness
SOC 4372 Health and Illness
SPAN 2341 Medical Spanish

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