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 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
BIOL 3380 Biochemistry Laboratory
BIOL 3455 Human Anatomy and Physiology with Lab I
BIOL 3456 Human Anatomy and Physiology with Lab II
BIOL 3520 General Microbiology with Lab
BIOL 4315 Genes, Disease and Therapeutics
BIOL 4340 Proteomics
BIOL 4341 Genomics
BIOL 4345 Immunobiology
BIOL 4350 Medical Microbiology
BIOL 4352 Medical Molecular and Cell Biology
BIOL 4353 Molecular Biology of HIV/AIDS
BIOL 4366 Molecular Biology of Cancer
BIOL 4V40 Special Topics in Molecular and Cell Biology [when topic is Oral Histology]

Chemistry
CHEM 2123 Introductory Organic Chemistry Laboratory I
CHEM 2125 Introductory Organic Chemistry Laboratory II
CHEM 2323 Introductory Organic Chemistry I
CHEM 2325 Introductory Organic Chemistry II
CHEM 2401 Introductory Quantitative Methods in Chemistry
CHEM 3321 Physical Chemistry I
CHEM 3322 Physical Chemistry II
CHEM 4381 Green Chemistry and Green Fuels

Neuroscience
NSC 3361 Introduction to Neuroscience
NSC 4351 Medical Neuroscience
NSC 4352 Cellular Neuroscience
NSC 4354 Integrative Neuroscience
NSC 4356 Neurophysiology
NSC 4363 Neuropharmacology
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.
**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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