



Tarleton State University

BS in Physics - Medical Physics Track

BS Physics Degree

Physics is one of the best choices for a major for students interested in a medical career. Physics majors routinely have among the highest scores on the MCAT and among the highest admission rate to medical score of any major.

Medical Physics

Medical Physics is a profession that combines principles of physics and engineering with those of biology and medicine to effect better diagnosis and treatment of human diseases while ensuring the safety of the public. It is one of the fastest growing fields in the U.S. due to the increasing use of nuclear based medical techniques such as CT, Positron Electron Tomography, and proton therapy.

Tarleton's Program

The program is one of only two in Texas and provides the student with the foundation needed for admission to either UT Health Science Center's graduate medical physics program or medical school.

Physics I&II	Optics
Medical Physics I&II	Mechanics
Modern Physics I&II	Nuclear Physics
Electromagnetism	Biology I&II
Anatomy/Physiology	Microbiology
Chemistry I&II	Organic Chemistry
Biochemistry I&II	Calculus I,II, & III
Differential Eqt.	Linear Algebra



Cletus Fuhrman, scored in the top 2% on MCAT as a Junior and will be attending UT Southwestern Medical School.



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Myths and Facts About Pre-Med Requirements

Myth:

One needs to major in Biology to be admitted to Medical School.

Fact:

Any major can apply to medical school if they have taken the pre-requisite courses in Biology, Physics, Chemistry, and Math.

Myth:

Biology majors score higher on the MCAT.

Fact:

The Chart on the left shows the average MCAT score by major for 2009 according to the Association of American Medical Colleges, Data Warehouse.

As in their 2003 study, Bioengineering and Physics majors scored first and second on the MCAT.

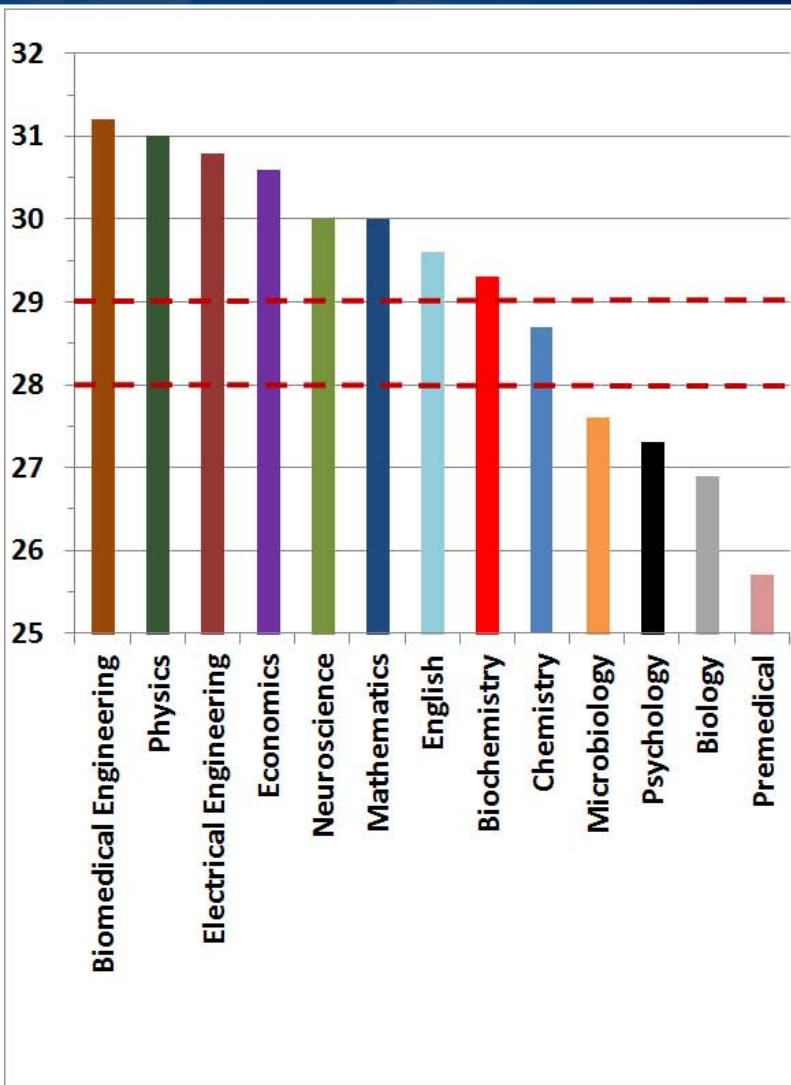
The average score for all majors was 28. Most medical schools require a score between 29 to 31 to be competitive for admission.

Myth:

One doesn't need advanced Math to be admitted to Medical School.

Fact:

Most Medical Schools require calculus I and either calculus II or statistics. Some require more advanced math.



Department of Engineering and Physics
Tarleton State University
Box T-390
Stephenville, Texas 76402
www.tarleton.edu/engrphys/
Member of Texas A&M System



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Facilities

Tarleton State University boasts the finest lab and undergraduate research facilities of any undergraduate institution in Texas. Some of our unique facilities include:

- 1) Largest Undergraduate Telescope Facility in the U.S.
- 2) Only Tandem Accelerator at a State Funded Public Institution in the U.S.
- 3) Scanning Electron Microscope with 3.5 nm resolution
- 4) Rigaku X-ray Fluorescence System

Medical and Health Physics Equipment

Tarleton also has a complete selection of lab equipment for its medical physics classes including:

- 1) Multimillion dollar accelerator facility for detecting radiation including HpGe and multiple NaI gamma detectors, environmental shield, particle detectors, and Si(Li) x-ray detector.
- 2) Ultrasound Trainer
- 3) LD X-ray Imaging Unit
- 4) LD X-ray Computer Tomography System
- 5) Tele-atomic NMR
- 6) Stress-Strain Tester

