PHYSICS AND PRE-MED

Physics majors fair well with admissions into medical schools.

The Association of American Medical Colleges reports for the past two years that physics majors are more likely to be accepted into medical school than majors from all biological sciences or chemistry.

Physics majors are highly sought by medical schools, because mathematical and problem-solving abilities stressed in physics are more than ever needed in today's medical fields. Due to their relative rarity, physics majors stand out in the applicant pool.

In UTEP's physics program sufficient time is allotted to take the biology and chemistry courses required by most medical schools and needed to prepare for the MCAT exam.

A Physics degree also prepares you for graduate school in biophysics or related fields.

HOW IS PHYSICS APPLIED IN MEDICINE?

An understanding of fundamental physical principles gives insight into all basic sciences, including those in medicine.

The techniques of physics include intellectual approaches to problem solving, with methods universal to all sciences.

Study in physics requires discipline and dedication, attributes also necessary for physicians.

The technology of medicine and medical research intimately ties to the technology of physics.

Physics training develops the skills necessary for the proper analysis and handling of observations and data, skills also needed by physicians.

A degree in physics demonstrates, perhaps better than any other major, the capabilities necessary for doing well in medical school.

SALARIES

The US dept. of Labor stated the following median annual wages for 2004-2005:

- Comp. Sci. - - $50,820
- Microbiology - $54,820
- Chemistry - - $56,060
- Civil Eng. - - $64,230
- Industrial Eng $65,020
- Mech. Eng. - - $66,320
- Electric Eng.- $71,610
- Physics- - - - $72,000

Those with physics backgrounds typically earn good salaries.

WHY PHYSICS?

Physics is the science of technology.

In our department you will learn to use devices of X Ray Spectroscopy, Electron Diffraction, Lasers, Telescope, Microscope of Electrons, Doppler Atmospheric Radar and many more instruments.
FIELD OF EMPLOYMENT 5 TO 8 YEARS AFTER RECEIVING PHYSICS BACHELOR’S DEGREE

<table>
<thead>
<tr>
<th>Field</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Software, Science, Lab</td>
<td></td>
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<tr>
<td>Engineering</td>
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<tr>
<td>Management</td>
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<tr>
<td>Education</td>
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<td>Military Service</td>
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Physics bachelors work in a variety of fields, and many use their physics training in those fields.

OTHER OPTIONS

Aside from studying Physics as a Pre-Med there are other options, like a double major in Physics and Biology or a 5-year BS-M.S program.

- **Applied Physics and Biology**
  It is possible to finish major both in applied physics and biology and complete both majors in 5 years.
- **5 year B.S.-M.S. in Biophysics**
  It is possible to obtain a BS in physics and a MS in biophysics in 5 years.

PROFILE OF PHYSICS PROGRAM

- Provides training in basic areas of physics like Mechanics, Electricity and Magnetism, Thermodynamics, Optics, and Quantum Acoustics
- The program lasts nine semesters.
- It is possible to do research on Environmental Physics, Astrophysics, Nuclear, Space, Physics, Education and Biophysics.
- It is possible to continue in MS studies in Physics and PhD studies in Material Science and Environmental Science and Geology.
- It is possible to continue studying Medicine, Dentistry, or a PhD in Medicine.