

Biomedical Physics

in the Department of Physics and Astronomy

sample four-year undergraduate curriculum

Fall Semester	Winter Semester
FRESHMAN YEAR	
Physics 2130/2131 or 2170/2171	Physics 2140/2141 or 2180/2181
Mathematics 1800	Chemistry 1220/1230
English (BC)	English (IC)
Gen. Education Requirement	Mathematics 2010
SOPHOMORE YEAR	
Physics 3X00: Mathematics for Biomedical Physics#	Physics 4X00: Introduction to Biomedical Physics#
Chemistry 1240/1250	College Foreign Language I
Biology 1500	Biology 1510
Mathematics 2020	Gen. Education Requirement

Fall Semester	Winter Semester
JUNIOR YEAR	
Physics 5340/5341: Optics	Physics 5620: Electronics
Chemistry 2220/2230 or 2280/2290	Physics 6Z00 Biomedical Seminar#
College Foreign Language II	College Foreign Language III
Biology Elective	Science Elective
SENIOR YEAR	
Physics 6X00: Biological Physics#	Physics/Radiology 6Y00: Physics in Medicine#
Science Elective	Physics/Radiology 6W00: Biomedical Physics Research#
Science Elective	College Group Requirement
Gen. Education Requirement	Gen. Education Requirement

denotes a new course developed specifically for this program

Biomedical Physics deals with the applications of physics to biology and medicine.

This includes:

- medical imaging
- radiation therapy
- biotechnology
- molecular biology
- bioinformatics

The New Program

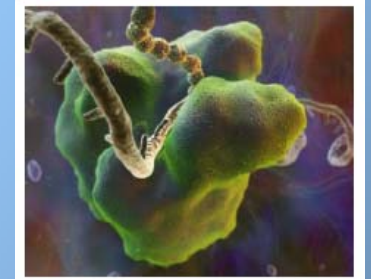
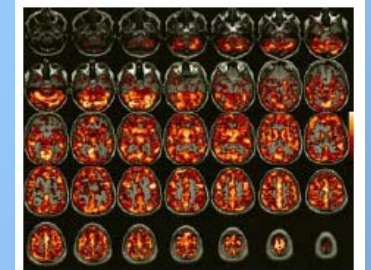
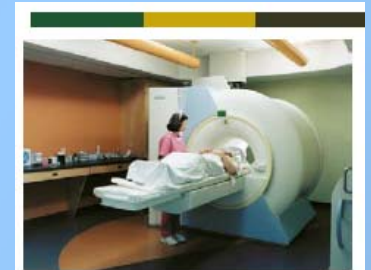
The new interdisciplinary biomedical physics program combines classes in

- **Physics**
- **Biology**
- **Chemistry**
- **Mathematics**
- **Medical Applications**

to prepare students for the job market of tomorrow.
(see curriculum at left)

The biomedical physics program is designed to provide a degree that can lead to several exciting careers:

- medical school
- pharmacy school
- industry / R&D in medical instrumentation, pharmaceuticals
- graduate school in
 - medical physics
 - biophysics
 - physics



This new major is unique and is not offered at any other university in Michigan!