Biomedical Physics, B.S.

DEPARTMENT

Department of Physics
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www.fresnostate.edu/physics

MN in Physical Science, Minor
MS in Physics, M.S.
BS in Physics, B.S.
MN in Physics, Minor
MN in Medical Physics, Minor
MN in Astronomy, Minor
BS in Biomedical Physics, B.S.
CRED in Single Subject Credential - Physical Science

The Department of Physics has an active theoretical physics program that focuses on gravitational physics and field theory. We have ongoing collaborations with several international research groups including the Institute of Applied Physics of the Academy of Sciences of Moldova, Kyrgyz-Russian Slavic University, the Center for Gravitation and Fundamental Metrology (VNIIMS) at the Peoples' Friendship University of Russia, and the Universidad de Costa Rica. Our students in this area regularly attend national and international conferences to give talks, and they are active in publishing their research work in refereed journals. Several international researchers have visited our department and engaged in collaborative research, colloquia, and seminars.

REQUIREMENTS

Bachelor of Science in Biomedical Physics - Requirements

The B.S. in Biomedical Physics is an interdisciplinary program developed with the assistance of the National Institute of Mental Health and the National Institute of Biomedical Imaging and Bioengineering to motivate students pursuing careers in applications of physics in medicine. The curriculum provides fundamental groundwork in physics, mathematics, and biology. For further details, please contact Dr. Amir Huda at 559.278.8427 or visit http://fresnostate.edu/csm/medicalphysics.

Bachelor of Science in Biomedical Physics Requirements. Those seeking admission to the B.S. in Biomedical Physics major must adhere to university admissions requirements, including submission of applications, official transcripts, and appropriate standardized test scores.

Biomedical Physics Major

Biomedical Physics Requirements (46 units) (see note 1)

Physics core (14 units)
PHYS 4A, 4AL, 4B, 4BL, 4C, 102

Biology core (9 units)
BIOL 67A, 144

Upper-division courses (23 units)
PHYS 135, 136, 137, 155, 156, 157, 158

Additional Requirements (29 units)
MATH 75, 76, 77, 81; CHEM 1A, 1AL, 1B, 1BL; ECE 70, 72

General Education Requirements (51 units)*

Total units (120 units)
* There are 51 units required for General Education. Of these 51 required units, 6 units will be satisfied by the following two courses in additional requirements: 3 units of CHEM 1A in G.E. Breadth B1 and 3 units of MATH 75 in G.E. Foundation B4.

**Advising Notes**

1. CR/NC grading is not permitted in the biomedical physics major. Additional requirements, however, may be taken for CR/NC (see Credit/No Credit Grading),
2. Students should be sure to take sufficient upper-division units in their General Education courses and electives to satisfy the university requirement of 40 upper-division units. It is important to fulfill the upper-division writing skills requirement by exam or "W" class after completing 60 units for which a student may request 1 unit of credit.

**FACULTY**

Our faculty members are here to teach and to do research. Several faculty members have research projects involving students. Two of our faculty members do theoretical work in particle physics and field theory while others are involved with numerous different experimental research fields; some of our faculty are involved in physics pedagogy.

For faculty phone numbers and e-mail, see the campus directory.

For more on the faculty, see the faculty pages.

The faculty pages are updated by the department or program.

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<thead>
<tr>
<th>Name</th>
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