

Biomedical Physics, B.S.

DEPARTMENT

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.

REQUIREMENTS

Department of Physics

Bachelor of Science in Biomedical Physics Requirements

The B.S. in Biomedical Physics is an interdisciplinary program developed to provide students pursuing careers in Medical Physics and Health Physics the necessary background in Physics, Mathematics, and Biology.

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

1. Biomedical Physics Requirements (48 units)

Physics core (20 units)

PHYS 4A, PHYS 4AL, PHYS 4B, PHYS 4BL, PHYS 4C, PHYS 102, PHYS 106, PHYS 115

Biology core (12 units)

BIOL 1A, BIOL 67A, BIOL 144

Upper-division courses (16 units)

PHYS 135, PHYS 136, PHYS 137, PHYS 155, PHYS 156,

One of the two courses: PHYS 157 or PHYS 158

Additional Requirements (23 units)

MATH 75, MATH 76, MATH 77, MATH 81, CHEM 1A, CHEM 1AL, ECE 71

2. General Education requirements (48 units)*

3. Other requirements (9 units)

American Government and Institutions (PLSI 2), Multicultural and International (MI), and Upper-division writing.

4. Sufficient elective units to meet required total units (varies)

5. Total units (120 units)*

* G.E. courses can be double-counted with major requirements. Of the 48 required G.E. units, 9 units will be satisfied in additional requirements: 3 units of CHEM 1A/1AL in area B1, 3 units of BIOL 1A in area B2, 3 units of MATH 75 in area B4. See advisor for details.

Advising Note

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).

FACULTY

Our faculty members are here to teach and to do research. Several faculty members have research projects involving students.

Our classes are small: our upper-division and graduate classes usually have 10-15 students or less. Physics majors get to know each other very well. They develop friendships with peers, faculty, and staff, which extend well beyond graduation.

There are eight research/creative activity areas that are part of our current efforts: (1) Computational Physics, (2) High Energy Physics (HEP), (3) Strongly Correlated Electron Physics, (4) Nanotechnology, (5) Astronomy and Astrophysics, (6) Microbeam X-ray Fluorescence (XRF), (7) Theoretical Physics, (8) Physics Outreach.

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.