## Biomedical Physics, B.S. (120 Units)

Valid for Catalog Years: 2018/2019 to Present

*Official planning guide approved by the College of Science & Math

<table>
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<tr>
<th>Freshman</th>
<th>Spring</th>
<th>Fall</th>
<th>Sophomore</th>
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### Milestones

- MATH 75 (4 units)
- PHYS 4A (3 Units)
- PHYS 4B (3 Units)
- PHYS 4C (3 Units)
- PHYS 136 (3 Units)
- A2 (3 Units)
- Written Communication
  - Must pass with a C or better; ENGL 10 recommended
- A1 (3 Units)
- Oral Communication
  - Must pass with a C or better
- B2 (4 Units)
- Life Sciences
  - *BIOL 1A recommended*
- C1 (3-4 Units)
- Arts
- C1/C2 (3-4 Units)
- Arts or Humanities
- D2 (3 Units)
- American Government
- E1 (3 Units)
- Lifelong Understanding & Self Development
- ID (3-4 Units)
- Social, Political, & Economic Institutions
- A3 (3 Units)
- Critical Thinking
  - Must pass with a C or better
- C2 (3-4 Units)
- Humanities
- D3 (3 Units)
- Social Science
- IB (3 Units)
- Physical Universe & Its Life Forms
- D1 (3 Units)
- American History
- IC (3-4 Units)
- Arts & Humanities

### General Education

#### GE Area B1

- CHEM 1A (3 Units)
  - Physical Sciences
  - [Pre-Req: High school chemistry. May be taken concurrently: GE B4; CHEM 1AL]
  - *Not open to students with credit in CHEM 1B*
- GE Area B2

#### GE Area B3

- CHEM 1B (3 Units)
  - [Pre-Req: CHEM 1A & 1AL (both passed with a C or better); CHEM 1B (may be taken concurrently)]
- CHEM 1BL (2 Units)
  - Lab
  - [Pre-Req: CHEM 1A (may be taken concurrently)]
- MATH 77 (4 Units)
  - [Pre-Req: MATH 76]
- MATH 78 (3 Units)
  - [Pre-Req: MATH 77]
- PHYS 135 (4 Units)
  - [Pre-Req: PHYS 4A, 4AL, 4B, 4BL, 4C]
- PHYS 137 (3 Units)
  - [Pre-Req: PHYS 136]
- PHYS 138 (3 Units)
  - [Pre-Req: PHYS 136]
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### Major

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**GE Area B4**
- MATH 75 (4 Units)
- Quantitative Reasoning

*See course catalog for prerequisite requirements*

**MATH 76 (4 Units)**
[Pre-Req: MATH 75 or MATH 75A & 8]

**PHYS 4B (3 Units)**
[Pre-Req: PHYS 4A; MATH 77 (may be taken concurrently)]

**PHYS 136 (3 Units)**
[Co-Req: PHYS 102]

**PHYS 155 (1 Unit)**

**PHYS 4A (3 Units)**
[Pre-Req: GE B4; MATH 76 (may be taken concurrently)]

**PHYS 4BL (1 Unit)**
[Co-Req: PHYS 4B]

**ECE 72 (2 Units)**
[Pre-Req: ECE 71 or CSCI 40]

**PHYS 4AL (1 Unit)**
[Co-Req: PHYS 4A]

**PHYS 155 (1 Unit)**

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### Additional Graduation Requirements

**UDWS (0-4 Units)**
*Upper Division Writing Exam OR "W" Course (must pass with a C or better)*

**MI (3 Units)**
Multicultural/International

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**FOOTNOTES:**

- **Prerequisites/Corequisites:** Other restrictions may apply. Please see your course catalog for detailed prerequisite/corequisite requirements.
- **Grade Requirements:** CR/NC grading is not permitted in the Biomedical Physics major. Additional requirements, however, may be taken for CR/NC.
- **Upper Division Writing Skills requirement (UDWS):** All undergraduate students must demonstrate competency in writing skills by passing the Upper Division Writing Exam (UDWE) or by obtaining a C or better in an approved upper division writing course, identified by the letter "W."
- **Substitutions:** If substitutions/exceptions/waivers are made for any major courses that also meet GE and/or the Multicultural/International graduation requirement, the student is responsible for completing additional courses to satisfy the respective areas (GE and/or MI). This also includes the upperdivision writing requirement.