Applied Physics

Summary of Requirements for Teaching Certification Option in Physics
If you wish to complete a Maryland State approved program in teaching Physics, you must:
- Complete the BA/BS in Physics - Traditional Physics Track.
- Meet the phase admissions requirements summarized in the Educational Professions section.
- Complete the professional education sequence described in Education: Secondary School Programs.

Applied Physics
Bachelor’s/Master’s Collaborative Program

Summary of Program Requirements at FSU:
1. Completion of all requirements for the physics major at Frostburg State University.
2. Completion of the following FSU courses as physics electives: PHYS 313 and PHYS 417.
3. Completion of all Frostburg State University general education and basic baccalaureate requirements.
4. Completion of a total of at least 120 semester hours at FSU.

Requirements for Formal Admission to the Program through UMBC:
1. An application submitted to the FSU Physics Department Chair at the beginning of the junior year. This will include an application form, undergraduate transcripts and three letters of recommendation.
2. A minimum cumulative grade point average of 3.0.
3. Formal application to the UMBC Graduate School for admission to the Applied Physics MS program by December of the senior year. Application procedures are described in the UMBC Graduate Catalog.

Applied Physics Bachelor’s/Master’s Collaborative Program

<table>
<thead>
<tr>
<th>Hours Required at FSU</th>
<th>120</th>
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<tbody>
<tr>
<td>Hours Required at UMBC</td>
<td>21</td>
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<tr>
<td>Total Hours Required</td>
<td>141</td>
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Coordinator:
Mohammed Eltayeb, Chair,
Department of Physics and Engineering

- Frostburg State University students may apply three FSU physics courses (nine credit hours) towards an undergraduate degree in Physics from FSU and towards a master’s degree in Applied Physics from the University of Maryland, Baltimore County. The three courses which have UMBC equivalents are:
  - PHYS 312
  - PHYS 313
  - PHYS 417
- Since the Applied Physics program at UMBC normally requires 30 credit hours of graduate work, a student in the BS/MS program will be required to complete a minimum of only 141 hours to earn both the BS and MS degrees.